

- 2-(1-{4-[3-methanesulfonyl-1-(4-methoxy-phenyl)-7-oxo-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclopentyl)-N-methyl-acetamide;
- 5 2-(1-{4-[3-methanesulfonyl-1-(4-methoxy-phenyl)-7-oxo-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclopentyl)-N,N-dimethyl-acetamide;
- 10 2-(1-{4-[3-methanesulfonyl-1-(4-methoxy-phenyl)-7-oxo-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclopentyl)-acetamide;
- 15 2-(1-{4-[3-methanesulfonyl-1-(4-methoxy-phenyl)-7-oxo-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclobutyl)-acetamide;
- 20 2-(1-{4-[3-methanesulfonyl-1-(4-methoxy-phenyl)-7-oxo-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclobutyl)-N-methyl-acetamide;
- 25 2-(1-{4-[3-methanesulfonyl-1-(4-methoxy-phenyl)-7-oxo-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclobutyl)-N,N-dimethyl-acetamide;
- 30 2-(1-{4-[3-cyano-1-(4-methoxy-phenyl)-7-oxo-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclobutyl)-N-methyl-acetamide;
- 35 2-(1-{4-[3-cyano-1-(4-methoxy-phenyl)-7-oxo-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclobutyl)-acetamide;

- 2-(1-{4-[1-(4-methoxy-phenyl)-7-oxo-3-trifluoromethyl-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclobutyl)-acetamide;
- 5 2-(1-{4-[1-(4-methoxy-phenyl)-7-oxo-3-trifluoromethyl-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclobutyl)-N-methyl-acetamide;
- 10 2-(1-{4-[1-(4-methoxy-phenyl)-3-methyl-7-oxo-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclobutyl)-N-methyl-acetamide;
- 15 2-(1-{4-[1-(4-methoxy-phenyl)-3-methyl-7-oxo-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclobutyl)-acetamide;
- 20 2-(1-{4-[1-(4-methoxy-phenyl)-7-oxo-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclobutyl)-acetamide;
- 25 2-(1-{4-[1-(4-methoxy-phenyl)-7-oxo-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclobutyl)-N,N-dimethyl-acetamide;
- 30 2-(1-{4-[3-(4-methoxy-phenyl)-4-oxo-3,4,6,7-tetrahydro-[1,2,3]triazolo[4,5-c]pyridin-5-yl]-phenyl}-cyclobutyl)-N,N-dimethyl-acetamide;
- 35 2-(1-{4-[3-(4-methoxy-phenyl)-4-oxo-3,4,6,7-tetrahydro-[1,2,3]triazolo[4,5-c]pyridin-5-yl]-phenyl}-cyclobutyl)-N-methyl-acetamide;

2- (1- {4- [3- (4-methoxy-phenyl)-4-oxo-3,4,6,7-tetrahydro-  
[1,2,3]triazolo[4,5-c]pyridin-5-yl]-phenyl}-  
cyclobutyl)-acetamide;

5 5-chloro-thiophene-2-carboxylic acid {2-[4-(1-  
dimethylaminomethyl-cyclopropyl)-benzyl]-1,3-dioxo-  
2,3-dihydro-1H-isoindol-4-yl}-amide;

10 5-chloro-thiophene-2-carboxylic acid {2-[4-(1-  
dimethylaminomethyl-cyclopropyl)-benzyl]-1-oxo-2,3-  
dihydro-1H-isoindol-4-yl}-amide;

15 5-chloro-thiophene-2-carboxylic acid {2-[4-(1-  
dimethylaminomethyl-cyclopropyl)-benzyl]-3-oxo-2,3-  
dihydro-1H-isoindol-4-yl}-amide;

20 5-chloro-thiophene-2-carboxylic acid [2-(2-{4-[1-(2-  
dimethylamino-ethyl)-cyclopropyl]-phenyl}-ethyl)-1,3-  
dioxo-2,3-dihydro-1H-isoindol-4-yl]-amide;

5-chloro-thiophene-2-carboxylic acid [2-(2-{4-[1-(2-  
dimethylamino-ethyl)-cyclopropyl]-phenyl}-ethyl)-1-  
oxo-2,3-dihydro-1H-isoindol-4-yl]-amide;

25 5-chloro-thiophene-2-carboxylic acid [2-(2-{4-[1-(2-  
dimethylamino-ethyl)-cyclopropyl]-phenyl}-ethyl)-3-  
oxo-2,3-dihydro-1H-isoindol-4-yl]-amide;

30 5-chloro-thiophene-2-carboxylic acid [2-(2-{3-[1-(2-  
dimethylamino-ethyl)-cyclopropyl]-phenyl}-ethyl)-1,3-  
dioxo-2,3-dihydro-1H-isoindol-4-yl]-amide;

35 5-chloro-thiophene-2-carboxylic acid [2-(2-{3-[1-(2-  
dimethylamino-ethyl)-cyclopropyl]-phenyl}-ethyl)-1-  
oxo-2,3-dihydro-1H-isoindol-4-yl]-amide;

- 5-chloro-thiophene-2-carboxylic acid [2-(2-{3-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-ethyl)-3-oxo-2,3-dihydro-1H-isoindol-4-yl]-amide;
- 5 5-chloro-thiophene-2-carboxylic acid (2-{2-[4-(1-dimethylaminomethyl-cyclopropyl)-phenyl]-ethyl}-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 10 5-chloro-thiophene-2-carboxylic acid (2-{2-[4-(1-dimethylaminomethyl-cyclopropyl)-phenyl]-ethyl}-1-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 15 5-chloro-thiophene-2-carboxylic acid (2-{2-[4-(1-dimethylaminomethyl-cyclopropyl)-phenyl]-ethyl}-3-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 20 5-chloro-thiophene-2-carboxylic acid (2-{2-[3-(1-dimethylaminomethyl-cyclopropyl)-phenyl]-ethyl}-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 25 5-chloro-thiophene-2-carboxylic acid (2-{2-[3-(1-dimethylaminomethyl-cyclopropyl)-phenyl]-ethyl}-3-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 30 5-chloro-thiophene-2-carboxylic acid {2-[3-(1-dimethylaminomethyl-cyclopropyl)-benzyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 35 5-chloro-thiophene-2-carboxylic acid {2-[3-(1-dimethylaminomethyl-cyclopropyl)-benzyl]-1-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;

- 5-chloro-thiophene-2-carboxylic acid {2-[3-(1-dimethylaminomethyl-cyclopropyl)-benzyl]-3-oxo-2,3-dihydro-1H-isoindol-4-yl}-amide;
- 5 5-chloro-thiophene-2-carboxylic acid (2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzyl}-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 10 5-chloro-thiophene-2-carboxylic acid (2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzyl}-1-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 15 5-chloro-thiophene-2-carboxylic acid (2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzyl}-3-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 20 5-chloro-thiophene-2-carboxylic acid (2-{3-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzyl}-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 25 5-chloro-thiophene-2-carboxylic acid (2-{3-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzyl}-1-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 30 5-chloro-thiophene-2-carboxylic acid {6-chloro-2-[4-(1-dimethylaminomethyl-cyclopropyl)-benzyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl}-amide;
- 35 5-chloro-thiophene-2-carboxylic acid {6-chloro-2-[4-(1-dimethylaminomethyl-cyclopropyl)-benzyl]-1-oxo-2,3-dihydro-1H-isoindol-4-yl}-amide;

5-chloro-thiophene-2-carboxylic acid {6-chloro-2-[4-(1-dimethylaminomethyl-cyclopropyl)-benzyl]-3-oxo-2,3-dihydro-1H-isoindol-4-yl}-amide;

5 5-chloro-thiophene-2-carboxylic acid [6-chloro-2-(2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-ethyl)-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl]-amide;

10 5-chloro-thiophene-2-carboxylic acid [6-chloro-2-(2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-ethyl)-1-oxo-2,3-dihydro-1H-isoindol-4-yl]-amide;

15 5-chloro-thiophene-2-carboxylic acid [6-chloro-2-(2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-ethyl)-3-oxo-2,3-dihydro-1H-isoindol-4-yl]-amide;

20 5-chloro-thiophene-2-carboxylic acid [6-chloro-2-(2-{3-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-ethyl)-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl]-amide;

5-chloro-thiophene-2-carboxylic acid [6-chloro-2-(2-{3-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-ethyl)-1-oxo-2,3-dihydro-1H-isoindol-4-yl]-amide;

25 5-chloro-thiophene-2-carboxylic acid [6-chloro-2-(2-{3-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-ethyl)-3-oxo-2,3-dihydro-1H-isoindol-4-yl]-amide;

30 5-chloro-thiophene-2-carboxylic acid (6-chloro-2-{2-[4-(1-dimethylaminomethyl-cyclopropyl)-phenyl]-ethyl}-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl)-amide;

35 5-chloro-thiophene-2-carboxylic acid (6-chloro-2-{2-[4-(1-dimethylaminomethyl-cyclopropyl)-phenyl]-ethyl}-1-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;

- 5-chloro-thiophene-2-carboxylic acid (6-chloro-2-{2-[4-(1-dimethylaminomethyl-cyclopropyl)-phenyl]-ethyl}-3-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 5 5-chloro-thiophene-2-carboxylic acid (6-chloro-2-{2-[3-(1-dimethylaminomethyl-cyclopropyl)-phenyl]-ethyl}-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 10 5-chloro-thiophene-2-carboxylic acid (6-chloro-2-{2-[3-(1-dimethylaminomethyl-cyclopropyl)-phenyl]-ethyl}-1-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 15 5-chloro-thiophene-2-carboxylic acid (6-chloro-2-{2-[3-(1-dimethylaminomethyl-cyclopropyl)-phenyl]-ethyl}-3-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 20 5-chloro-thiophene-2-carboxylic acid {6-chloro-2-[3-(1-dimethylaminomethyl-cyclopropyl)-benzyl]-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl}-amide;
- 25 5-chloro-thiophene-2-carboxylic acid {6-chloro-2-[3-(1-dimethylaminomethyl-cyclopropyl)-benzyl]-1-oxo-2,3-dihydro-1H-isoindol-4-yl}-amide;
- 30 5-chloro-thiophene-2-carboxylic acid (6-chloro-2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzyl}-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 35 5-chloro-thiophene-2-carboxylic acid (6-chloro-2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzyl}-1-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;

- 5-chloro-thiophene-2-carboxylic acid (6-chloro-2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzyl}-3-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 5 5-chloro-thiophene-2-carboxylic acid (6-chloro-2-{3-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzyl}-1,3-dioxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 10 5-chloro-thiophene-2-carboxylic acid (6-chloro-2-{3-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzyl}-1-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 15 5-chloro-thiophene-2-carboxylic acid (6-chloro-2-{3-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzyl}-3-oxo-2,3-dihydro-1H-isoindol-4-yl)-amide;
- 20 (1-{4-[1-(4-methoxy-phenyl)-7-oxo-3-trifluoromethyl-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclopropyl)-acetic acid;
- 2- (1-{4-[1-(4-methoxy-phenyl)-7-oxo-3-trifluoromethyl-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclopropyl)-acetamide;
- 25 2- (1-{4-[1-(4-methoxy-phenyl)-7-oxo-3-trifluoromethyl-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclopropyl)-N-methyl-acetamide;
- 30 2- (1-{4-[1-(4-methoxy-phenyl)-7-oxo-3-trifluoromethyl-1,4,5,7-tetrahydro-pyrazolo[3,4-c]pyridin-6-yl]-phenyl}-cyclopropyl)-N,N-dimethyl-acetamide;
- 35 1-(4-methoxy-phenyl)-6-{4-[1-(2-oxo-2-pyrrolidin-1-yl-ethyl)-cyclopropyl]-phenyl}-3-trifluoromethyl-1,4,5,6-tetrahydro-pyrazolo[3,4-c]pyridin-7-one;



- 6-{4-[1-(2-hydroxy-ethyl)-cyclopropyl]-phenyl}-1-(4-methoxy-phenyl)-3-trifluoromethyl-1,4,5,6-tetrahydro-pyrazolo[3,4-c]pyridin-7-one;
- 5 1-(4-methoxy-phenyl)-6-{4-[1-(2-methylamino-ethyl)cyclopropyl]-phenyl}-3-trifluoromethyl-1,4,5,6-tetrahydro-pyrazolo[3,4-c]pyridin-7-one;
- 10 6-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-1-(4-methoxy-phenyl)-3-trifluoromethyl-1,4,5,6-tetrahydro-pyrazolo[3,4-c]pyridin-7-one;
- 15 1-(4-methoxy-phenyl)-6-{4-[1-(2-pyrrolidin-1-yl-ethyl)-cyclopropyl]-phenyl}-3-trifluoromethyl-1,4,5,6-tetrahydro-pyrazolo[3,4-c]pyridin-7-one;
- 20 1-(4-methoxy-phenyl)-6-{4-[1-(2-morpholin-4-yl-ethyl)-cyclopropyl]-phenyl}-3-trifluoromethyl-1,4,5,6-tetrahydro-pyrazolo[3,4-c]pyridin-7-one
- 25 6-[4-(1-carbamoylmethyl-cyclopropyl)-phenyl]-1-(4-methoxy-phenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid ethyl ester;
- 30 6-[4-(1-carbamoylmethyl-cyclopropyl)-phenyl]-1-(4-methoxy-phenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid amide;
- 35 1-(4-methoxy-phenyl)-6-[4-(1-methylcarbamoylmethyl-cyclopropyl)-phenyl]-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid ethyl ester;
- 1-(4-Methoxy-phenyl)-6-[4-(1-methylcarbamoylmethyl-cyclopropyl)-phenyl]-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid amide;

6-[4-(1-dimethylcarbamoylmethyl-cyclopropyl)-phenyl]-1-(4-methoxy-phenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid ethyl ester;

5

6-[4-(1-dimethylcarbamoylmethyl-cyclopropyl)-phenyl]-1-(4-methoxy-phenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid amide;

10

6-{4-[1-(2-hydroxy-ethyl)-cyclopropyl]-phenyl}-1-(4-methoxy-phenyl)-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid amide;

15

1-(4-methoxy-phenyl)-6-{4-[1-(2-morpholin-4-yl-ethyl)-cyclopropyl]-phenyl}-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carboxylic acid amide; and,

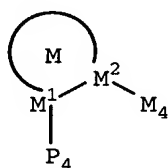
20

1-(4-methoxy-phenyl)-6-{4-[1-(2-morpholin-4-yl-ethyl)-cyclopropyl]-phenyl}-7-oxo-4,5,6,7-tetrahydro-1H-pyrazolo[3,4-c]pyridine-3-carbonitrile;

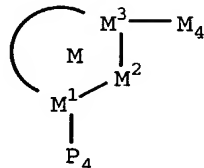
or a pharmaceutically acceptable salt form thereof.

25

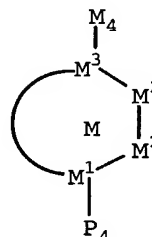
9. A compound according to Claim 1, wherein the compound is of Formula IIIa, IIIb, or IIIc:



IIIa



IIIb



IIIc

or a stereoisomer or pharmaceutically acceptable salt thereof, wherein;

30

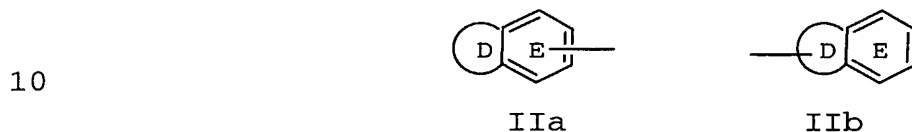
ring M, including M<sub>1</sub>, M<sub>2</sub>, and, if present, M<sub>3</sub>, is phenyl or a 3-10 membered carbocyclic or 4-10 membered

heterocyclic ring consisting of: carbon atoms and 1-4 heteroatoms selected from O, S(O)<sub>p</sub>, N, and NZ<sup>2</sup>;

ring M is substituted with 0-3 R<sup>1a</sup> and 0-2 carbonyl groups,  
5 and there are 0-3 ring double bonds;

one of P<sub>4</sub> and M<sub>4</sub> is -Z-A-B and the other -G<sub>1</sub>-G;

G is a group of formula IIa or IIb:



ring D, including the two atoms of Ring E to which it is attached, is a 5-6 membered ring consisting of carbon  
15 atoms and 0-2 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>;

ring D is substituted with 0-2 R and there are 0-3 ring double bonds;

20

E is selected from phenyl, pyridyl, pyrimidyl, pyrazinyl, and pyridazinyl, and is substituted with 1-3 R;

alternatively, ring D is absent, and ring E is selected  
25 from phenyl, pyridyl, pyrimidyl, and thienyl, and ring E is substituted with 1-3 R;

alternatively, ring D is absent, ring E is selected from phenyl, pyridyl, and thienyl, and ring E is  
30 substituted with 1 R and substituted with a 5-6 membered heterocycle consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>, wherein the 5-6 membered heterocycle

is substituted with 0-2 carbonyls and 1-3 R and there are 0-3 ring double bonds;

R is selected from H, C<sub>1-4</sub> alkyl, F, Cl, OH, OCH<sub>3</sub>, OCH<sub>2</sub>CH<sub>3</sub>,  
 5 OCH(CH<sub>3</sub>)<sub>2</sub>, CN, C(=NH)NH<sub>2</sub>, C(=NH)NHOH, C(=NH)NHOCH<sub>3</sub>,  
 NH<sub>2</sub>, NH(C<sub>1-3</sub> alkyl), N(C<sub>1-3</sub> alkyl)<sub>2</sub>, C(=NH)NH<sub>2</sub>, CH<sub>2</sub>NH<sub>2</sub>,  
 CH<sub>2</sub>NH(C<sub>1-3</sub> alkyl), CH<sub>2</sub>N(C<sub>1-3</sub> alkyl)<sub>2</sub>, (CR<sup>8</sup>R<sup>9</sup>)<sub>t</sub>NR<sup>7</sup>R<sup>8</sup>,  
 C(O)NR<sup>7</sup>R<sup>8</sup>, CH<sub>2</sub>C(O)NR<sup>7</sup>R<sup>8</sup>, S(O)<sub>p</sub>NR<sup>7</sup>R<sup>8</sup>, CH<sub>2</sub>S(O)<sub>p</sub>NR<sup>7</sup>R<sup>8</sup>,  
 SO<sub>2</sub>R<sup>3</sup>, and OCF<sub>3</sub>;

10

alternatively, when 2 R groups are attached to adjacent atoms, they combine to form methylenedioxy or ethylenedioxy;

15 A is selected from:

C<sub>5-10</sub> carbocycle substituted with 0-2 R<sup>4</sup>, and

5-10 membered heterocycle substituted with 0-2 R<sup>4</sup> and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>;

20

X is selected from -(CR<sup>2</sup>R<sup>2a</sup>)<sub>1-4</sub>-, -C(O)-, -C(O)CR<sup>2</sup>R<sup>2a</sup>-,  
 -CR<sup>2</sup>R<sup>2a</sup>C(O)-, -S(O)<sub>2</sub>-, -S(O)<sub>2</sub>CR<sup>2</sup>R<sup>2a</sup>-, -CR<sup>2</sup>R<sup>2a</sup>S(O)<sub>2</sub>-,  
 -NR<sup>2</sup>S(O)<sub>2</sub>-, -S(O)<sub>2</sub>NR<sup>2</sup>-, -NR<sup>2</sup>C(O)-, -C(O)NR<sup>2</sup>-, NR<sup>2</sup>,  
 -NR<sup>2</sup>CR<sup>2</sup>R<sup>2a</sup>-, -CR<sup>2</sup>R<sup>2a</sup>NR<sup>2</sup>-, O, -OCR<sup>2</sup>R<sup>2a</sup>-, and -CR<sup>2</sup>R<sup>2a</sup>O-;

25

Y is a C<sub>3-7</sub> monocyclic carbocycle or 3-7 membered monocyclic heterocycle, wherein the carbocycle or heterocycle consists of: carbon atoms and 0-2 heteroatoms selected from N, O, and S(O)<sub>p</sub>, the carbocycle or  
 30 heterocycle further comprises 0-2 double bonds and 0-2 carbonyl groups, and the carbocycle or heterocycle is substituted with 0-2 R<sup>4</sup>;

alternatively, Y is  $CY^1Y^2$ , and  $Y^1$  and  $Y^2$  are independently  $C_{1-3}$  alkyl substituted with 0-1  $R^4$ ;

5 Z is selected from a bond,  $CH_2$ ,  $CH_2CH_2$ ,  $CH_2O$ ,  $OCH_2$ ,  $C(O)$ ,  $NH$ ,  $CH_2NH$ ,  $NHCH_2$ ,  $CH_2C(O)$ ,  $C(O)CH_2$ ,  $C(O)NH$ ,  $NHC(O)$ ,  $NHC(O)NH$ ,  $NHC(O)CH_2C(O)NH$ ,  $NHC(O)C(O)NH$ ,  $C(O)NHS(O)_2$ ,  $S(O)_2$ ,  $CH_2S(O)_2$ ,  $S(O)_2(CH_2)$ ,  $SO_2NH$ , and  $NHSO_2$ , provided that Z does not form a N-S,  $NCH_2N$ ,  $NCH_2O$ , or  $NCH_2S$  bond with either group to which it is attached;

10

$Z^2$  is selected from H,  $C_{1-4}$  alkyl, phenyl, benzyl,  $C(O)R^{3b}$ ,  $S(O)R^{3f}$ , and  $S(O)_2R^{3f}$ ;

15  $R^{1a}$ , at each occurrence, is selected from H,  $-(CH_2)_r-R^{1b}$ ,  $-(CH(CH_3))_r-R^{1b}$ ,  $-(C(CH_3)_2)_r-R^{1b}$ ,  $-O-(CR^3R^{3a})_r-R^{1b}$ ,  $-NR^2-(CR^3R^{3a})_r-R^{1b}$ , and  $-S-(CR^3R^{3a})_r-R^{1b}$ , provided that  $R^{1a}$  forms other than an N-halo, N-S, O-O, or N-CN bond;

20 alternatively, when two  $R^{1a}$  groups are attached to adjacent atoms or to the same carbon atom, together with the atoms to which they are attached they form a 5-7 membered ring consisting of: carbon atoms and 0-2 heteroatoms selected from the group consisting of N, O, and  $S(O)_p$ , this ring being substituted with 0-2  $R^{4b}$  and 0-3 ring double bonds;

25  $R^{1b}$  is selected from H,  $CH_3$ ,  $CH_2CH_3$ ,  $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ , F, Cl, Br, I, -CN, -CHO,  $CF_3$ ,  $OR^2$ ,  $NR^2R^{2a}$ ,  $C(O)R^{2b}$ ,  $CO_2R^{2b}$ ,  $OC(O)R^2$ ,  $CO_2R^{2a}$ ,  $S(O)_pR^2$ ,  $NR^2(CH_2)_rOR^2$ ,  $NR^2C(O)R^{2b}$ ,  $NR^2C(O)NHR^2$ ,  $NR^2C(O)_2R^{2a}$ ,  $OC(O)NR^2R^{2a}$ ,  $C(O)NR^2R^{2a}$ ,  $C(O)NR^2(CH_2)_rOR^2$ ,  $SO_2NR^2R^{2a}$ ,  $NR^2SO_2R^2$ ,  $C_{3-6}$  carbocycle substituted with 0-2  $R^{4b}$ , and 5-6 membered heterocycle consisting of carbon atoms and from 1-4 heteroatoms

selected from the group consisting of N, O, and S(O)<sub>p</sub> and substituted with 0-2 R<sup>4b</sup>, provided that R<sup>1b</sup> forms other than an O-O, N-halo, N-S, or N-CN bond;

5 R<sup>2</sup>, at each occurrence, is selected from H, CF<sub>3</sub>, CH<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH(CH<sub>3</sub>)<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>, CH(CH<sub>3</sub>)CH<sub>2</sub>CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>3</sub>, benzyl, C<sub>5-6</sub> carbocycle substituted with 0-2 R<sup>4b</sup>, a C<sub>5-6</sub> carbocycle-CH<sub>2</sub>- substituted with 0-2 R<sup>4b</sup>, and 5-6 membered heterocycle substituted with 0-2 R<sup>4b</sup> and consisting of: carbon  
10 atoms and 1-4 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>;

R<sup>2a</sup>, at each occurrence, is selected from H, CF<sub>3</sub>, CH<sub>3</sub>,  
15 CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH(CH<sub>3</sub>)<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>, CH(CH<sub>3</sub>)CH<sub>2</sub>CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>3</sub>, benzyl, C<sub>3-6</sub> carbocycle substituted with 0-2 R<sup>4b</sup>, and 5-6 membered heterocycle substituted with 0-2 R<sup>4b</sup> and consisting of: carbon atoms and 1-4 heteroatoms selected from the group  
20 consisting of N, O, and S(O)<sub>p</sub>;

alternatively, R<sup>2</sup> and R<sup>2a</sup>, together with the nitrogen atom to which they are attached, combine to form a 3-6 membered saturated, partially saturated or unsaturated  
25 ring substituted with 0-2 R<sup>4b</sup> and consisting of: 0-1 additional heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>;

R<sup>2b</sup>, at each occurrence, is selected from CF<sub>3</sub>, C<sub>1-4</sub> alkoxy,  
30 C<sub>1-6</sub> alkyl substituted with 0-3 R<sup>4b</sup>, benzyl, C<sub>3-6</sub> carbocycle substituted with 0-2 R<sup>4b</sup>, and 4-6 membered heterocycle substituted with 0-2 R<sup>4b</sup> and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>;

- $R^{2c}$ , at each occurrence, is selected from  $CF_3$ , OH,  $C_{1-4}$  alkoxy,  $CH_3$ ,  $CH_2CH_3$ ,  $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ ,  $CH_2CH_2CH_2CH_3$ ,  $CH_2CH(CH_3)_2$ ,  $CH(CH_3)CH_2CH_3$ ,  $C(CH_3)_3$ , benzyl,  $C_{5-6}$  carbocycle substituted with 0-2  $R^{4b}$ , and 5-6 membered heterocycle substituted with 0-2  $R^{4b}$  and consisting of carbon atoms and from 1-4 heteroatoms selected from the group consisting of N, O, and  $S(O)_p$ ;
- 10  $R^{2d}$ , at each occurrence, is selected from H,  $R^{4c}$ ,  $C_{1-4}$  alkyl substituted with 0-2  $R^{4c}$ ,  $-(CR^3R^{3a})_r-C_{3-6}$  carbocycle substituted with 0-2  $R^{4c}$ , and  $-(CR^3R^{3a})_r-5-6$  membered heterocycle substituted with 0-2  $R^{4c}$  and consisting of: carbon atoms and 1-4 heteroatoms selected from the
- 15 group consisting of N, O, and  $S(O)_p$ , provided that  $R^{2d}$  forms other than a N-halo, N-C-halo,  $S(O)_p$ -halo, O-halo, N-S, S-N,  $S(O)_p-S(O)_p$ , S-O, O-N, O-S, or O-O moiety;
- 20 alternatively, when two  $R^{2d}$ 's are attached to the same nitrogen atom, then  $R^{2d}$  and  $R^{2d}$ , together with the nitrogen atom to which they are attached, combine to form a 5 or 6 membered saturated, partially saturated or unsaturated ring substituted with 0-2  $R^{4b}$  and
- 25 consisting of: 0-1 additional heteroatoms selected from the group consisting of N, O, and  $S(O)_p$ ;
- $R^{2e}$ , at each occurrence, is selected from H,  $R^{4c}$ ,  $C_{1-4}$  alkyl substituted with 0-2  $R^{4c}$ ,  $-(CR^3R^{3a})_r-C_{3-6}$  carbocycle
- 30 substituted with 0-2  $R^{4c}$ , and  $-(CR^3R^{3a})_r-5-6$  membered heterocycle substituted with 0-2  $R^{4c}$  and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and  $S(O)_p$ , provided that  $R^{2e}$  forms other than a C(O)-halo or C(O)- $S(O)_p$  moiety;

$R^3$ , at each occurrence, is selected from H,  $CH_3$ ,  $CH_2CH_3$ ,  
 $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ , benzyl, and phenyl;

5  $R^{3a}$ , at each occurrence, is selected from H,  $CH_3$ ,  $CH_2CH_3$ ,  
 $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ , benzyl, and phenyl;

alternatively,  $R^3$  and  $R^{3a}$ , together with the nitrogen atom  
to which they are attached, combine to form a 5 or 6  
10 membered saturated, partially unsaturated, or  
unsaturated ring consisting of: carbon atoms and the  
nitrogen atom to which  $R^3$  and  $R^{3a}$  are attached;

$R^{3c}$ , at each occurrence, is selected from  $CH_3$ ,  $CH_2CH_3$ ,  
15  $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ , benzyl, and phenyl;

$R^{3d}$ , at each occurrence, is selected from H,  $CH_3$ ,  $CH_2CH_3$ ,  
 $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ ,  $CH_2$ -phenyl,  $CH_2CH_2$ -phenyl, and  
 $C(=O)R^{3c}$ ;

20  $R^{3g}$ , at each occurrence, is selected from H,  $CH_3$ ,  $CH_2CH_3$ ,  
 $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ , cyclopropyl, cyclopropyl-methyl,  
benzyl, and phenyl;

25 alternatively, when  $R^3$  and  $R^{3g}$  are attached to the same  
carbon atom, they combine with the attached carbon  
atom to form a cyclopropyl group;

$R^4$ , at each occurrence, is selected from H, =O,  $OR^2$ ,  $CH_2OR^2$ ,  
30  $(CH_2)_2OR^2$ , F, Cl, Br, I,  $C_{1-4}$  alkyl, -CN,  $NO_2$ ,  $NR^2R^{2a}$ ,  
 $CH_2NR^2R^{2a}$ ,  $(CH_2)_2NR^2R^{2a}$ ,  $C(O)R^{2c}$ ,  $NR^2C(O)R^{2b}$ ,  $C(O)NR^2R^{2a}$ ,  
 $SO_2NR^2R^{2a}$ ,  $S(O)_pR^{5a}$ ,  $CF_3$ ,  $CF_2CF_3$ , 5-6 membered  
carbocycle substituted with 0-1  $R^5$ , and a 5-6 membered  
heterocycle substituted with 0-1  $R^5$  and consisting of:



carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>;

R<sup>4b</sup>, at each occurrence, is selected from H, =O, OR<sup>3</sup>,  
 5 CH<sub>2</sub>OR<sup>3</sup>, F, Cl, CH<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH(CH<sub>3</sub>)<sub>2</sub>,  
 CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>, CH(CH<sub>3</sub>)CH<sub>2</sub>CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>3</sub>, -CN,  
 NO<sub>2</sub>, NR<sup>3</sup>R<sup>3a</sup>, CH<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, C(O)R<sup>3</sup>, CH<sub>2</sub>-C(O)R<sup>3</sup>, C(O)OR<sup>3c</sup>,  
 CH<sub>2</sub>C(O)OR<sup>3c</sup>, NR<sup>3</sup>C(O)R<sup>3a</sup>, CH<sub>2</sub>NR<sup>3</sup>C(O)R<sup>3a</sup>, C(O)NR<sup>3</sup>R<sup>3a</sup>,  
 CH<sub>2</sub>C(O)NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(O)NR<sup>3</sup>R<sup>3a</sup>, CH<sub>2</sub>NR<sup>3</sup>C(O)NR<sup>3</sup>R<sup>3a</sup>,  
 10 C(=NR<sup>3</sup>)NR<sup>3</sup>R<sup>3a</sup>, CH<sub>2</sub>C(=NR<sup>3</sup>)NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>C(=NR<sup>3</sup>)NR<sup>3</sup>R<sup>3a</sup>,  
 CH<sub>2</sub>NR<sup>3</sup>C(=NR<sup>3</sup>)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, CH<sub>2</sub>SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>,  
 NR<sup>3</sup>SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, CH<sub>2</sub>NR<sup>3</sup>SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>SO<sub>2</sub>-C<sub>1-4</sub> alkyl,  
 CH<sub>2</sub>NR<sup>3</sup>SO<sub>2</sub>-C<sub>1-4</sub> alkyl, NR<sup>3</sup>SO<sub>2</sub>CF<sub>3</sub>, CH<sub>2</sub>NR<sup>3</sup>SO<sub>2</sub>CF<sub>3</sub>,  
 NR<sup>3</sup>SO<sub>2</sub>-phenyl, CH<sub>2</sub>NR<sup>3</sup>SO<sub>2</sub>-phenyl, S(O)<sub>p</sub>CF<sub>3</sub>, CH<sub>2</sub>S(O)<sub>p</sub>CF<sub>3</sub>,  
 15 S(O)<sub>p</sub>-C<sub>1-4</sub> alkyl, CH<sub>2</sub>S(O)<sub>p</sub>-C<sub>1-4</sub> alkyl, S(O)<sub>p</sub>-phenyl,  
 CH<sub>2</sub>S(O)<sub>p</sub>-phenyl, CF<sub>3</sub>, and CH<sub>2</sub>-CF<sub>3</sub>;

R<sup>4c</sup>, at each occurrence, is selected from =O, (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>OR<sup>2</sup>,  
 (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>F, (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>Br, (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>Cl, (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>CF<sub>3</sub>, C<sub>1-4</sub>  
 20 alkyl, C<sub>2-4</sub> alkenyl, C<sub>2-4</sub> alkynyl, (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>CN,  
 (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>NO<sub>2</sub>, (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>NR<sup>2</sup>R<sup>2a</sup>, (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>N(→O)R<sup>2</sup>R<sup>2a</sup>,  
 (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>C(O)R<sup>2c</sup>, (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>NR<sup>2</sup>C(O)R<sup>2b</sup>,  
 (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>C(O)NR<sup>2</sup>R<sup>2a</sup>, (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>NR<sup>2</sup>C(O)NR<sup>2</sup>R<sup>2a</sup>,  
 (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>SO<sub>2</sub>NR<sup>2</sup>R<sup>2a</sup>, (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>NR<sup>2</sup>SO<sub>2</sub>NR<sup>2</sup>R<sup>2a</sup>,  
 25 (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>NR<sup>2</sup>SO<sub>2</sub>R<sup>5a</sup>, (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>S(O)<sub>p</sub>R<sup>5a</sup>, (CF<sub>2</sub>)<sub>r</sub>CF<sub>3</sub>,  
 (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>C<sub>3-10</sub> carbocycle substituted with 0-2 R<sup>4b</sup>, and  
 (CR<sup>3</sup>R<sup>3a</sup>)<sub>r</sub>5-10 membered heterocycle substituted with 0-2  
 R<sup>4b</sup> and consisting of carbon atoms and from 1-4  
 heteroatoms selected from the group consisting of N,  
 30 O, and S(O)<sub>p</sub>;

$R^5$ , at each occurrence, is selected from H, =O,  $CH_3$ ,  $CH_2CH_3$ ,  
 $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ ,  $CH_2CH_2CH_2CH_3$ ,  $CH_2CH(CH_3)_2$ ,  
 $CH(CH_3)CH_2CH_3$ ,  $C(CH_3)_3$ ,  $OR^3$ ,  $CH_2OR^3$ , F, Cl, -CN,  $NO_2$ ,  
 $NR^3R^{3a}$ ,  $CH_2NR^3R^{3a}$ ,  $C(O)R^3$ ,  $CH_2C(O)R^3$ ,  $C(O)OR^{3c}$ ,  
5  $CH_2C(O)OR^{3c}$ ,  $NR^3C(O)R^{3a}$ ,  $C(O)NR^3R^{3a}$ ,  $NR^3C(O)NR^3R^{3a}$ ,  
 $CH(=NOR^{3d})$ ,  $C(=NR^3)NR^3R^{3a}$ ,  $NR^3C(=NR^3)NR^3R^{3a}$ ,  $SO_2NR^3R^{3a}$ ,  
 $NR^3SO_2NR^3R^{3a}$ ,  $NR^3SO_2-C_{1-4}$  alkyl,  $NR^3SO_2CF_3$ ,  $NR^3SO_2$ -  
phenyl,  $S(O)_pCF_3$ ,  $S(O)_p-C_{1-4}$  alkyl,  $S(O)_p$ -phenyl,  $CF_3$ ,  
phenyl substituted with 0-2  $R^6$ , naphthyl substituted  
10 with 0-2  $R^6$ , and benzyl substituted with 0-2  $R^6$ ;

$R^6$ , at each occurrence, is selected from H, OH,  $OR^2$ , F, Cl,  
 $CH_3$ ,  $CH_2CH_3$ ,  $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ ,  $CH_2CH_2CH_2CH_3$ ,  
 $CH_2CH(CH_3)_2$ ,  $CH(CH_3)CH_2CH_3$ ,  $C(CH_3)_3$ , -CN,  $NO_2$ ,  $NR^2R^{2a}$ ,  
15  $CH_2NR^2R^{2a}$ ,  $C(O)R^{2b}$ ,  $CH_2C(O)R^{2b}$ ,  $NR^2C(O)R^{2b}$ ,  
 $NR^2C(O)NR^2R^{2a}$ ,  $C(=NH)NH_2$ ,  $NHC(=NH)NH_2$ ,  $SO_2NR^2R^{2a}$ ,  
 $NR^2SO_2NR^2R^{2a}$ , and  $NR^2SO_2C_{1-4}$  alkyl; and,

$r$ , at each occurrence, is selected from 0, 1, 2, and 3.  
20

10. A compound according to Claim 9, wherein:

25 ring M, including  $M_1$ ,  $M_2$ , and, if present,  $M_3$ , is selected  
from phenyl, pyrrole, furan, thiophene, pyrazole,  
imidazole, isoxazole, oxazole, isothiazole, thiazole,  
1,2,3-triazole, 1,2,4-triazole, 1,3,4-triazole, 1,2,3-  
oxadiazole, 1,2,4-oxadiazole, 1,3,4-oxadiazole, 1,2,3-  
30 thiadiazole, 1,2,4-thiadiazole, 1,3,4-thiadiazole,  
1,2,3,4-tetrazole, 1,2,3,5-tetrazole, pyran,  
thiopyran, thiopyran-1,1-dioxide, pyridine,  
pyrimidine, pyridazine, pyrazine, 1,2,3-triazine,  
1,2,4-triazine, 1,2,3,4-tetrazine, dihydro-pyrrole,

dihydro-furan, dihydro-thiophene, dihydro-pyrazole,  
dihydro-imidazole, dihydro-isoxazole, dihydro-oxazole,  
dihydro-isothiazole, dihydro-thiazole, dihydro-1,2,3-  
5 triazole, dihydro-1,2,4-triazole, dihydro-1,3,4-  
triazole, dihydro-1,2,3-oxadiazole, dihydro-1,2,4-  
oxadiazole, dihydro-1,3,4-oxadiazole, dihydro-1,2,3-  
thiadiazole, dihydro-1,2,4-thiadiazole, dihydro-1,3,4-  
thiadiazole, dihydro-1,2,3,4-tetrazole, dihydro-  
1,2,3,5-tetrazole, dihydro-pyran, dihydro-thiopyran,  
10 dihydro-thiopyran-1,1-dioxide, dihydro-pyridine,  
dihydro-pyrimidine, dihydro-pyridazine, dihydro-  
pyrazine, dihydro-1,2,3-triazine, dihydro-1,2,4-  
triazine, dihydro-1,2,3,4-tetrazine, cyclopropane,  
cyclobutane, cyclopentene, cyclopentane, cyclohexene,  
15 cyclohexane, cycloheptane, tetrahydro-pyrrole,  
tetrahydro-furan, tetrahydro-thiophene, tetrahydro-  
thiophene-1,1-dioxide, tetrahydro-pyrazole,  
tetrahydro-imidazole, tetrahydro-isoxazole,  
tetrahydro-oxazole, tetrahydro-isothiazole,  
20 tetrahydro-thiazole, tetrahydro-1,2,3-triazole,  
tetrahydro-1,2,4-triazole, tetrahydro-1,3,4-triazole,  
tetrahydro-1,2,3-oxadiazole, tetrahydro-1,2,4-  
oxadiazole, tetrahydro-1,3,4-oxadiazole, tetrahydro-  
1,2,3-thiadiazole, tetrahydro-1,2,4-thiadiazole,  
25 tetrahydro-1,3,4-thiadiazole, tetrahydro-1,2,3,4-  
tetrazole, tetrahydro-1,2,3,5-tetrazole, tetrahydro-  
pyran, tetrahydro-thiopyran, tetrahydro-thiopyran-1,1-  
dioxide, tetrahydro-pyridine, tetrahydro-pyrimidine,  
tetrahydro-pyridazine, tetrahydro-pyrazine,  
30 tetrahydro-1,2,3-triazine, tetrahydro-1,2,4-triazine,  
tetrahydro-1,2,3,4-tetrazine, piperidine, indan,  
isothiazolidine 1,1-dioxide, [1,2]thiazinane 1,1-  
dioxide, 1,2,3,4-tetrahydro-naphthalene, 7,8-dimethyl-  
1-oxa-spiro[4.4]nonane, 6,7-dihydro-5H-[1]pyrindine,  
35 6,7-dihydro-5H-[2]pyrindine, 5,6,7,8-tetrahydro-  
quinoline, 5,6,7,8-tetrahydro-isoquinoline, 5,6,7,8-

tetrahydro-quinoxaline, 6,7-dihydro-5H-cyclopentapyrazine, 4,5,6,7-tetrahydro-1H-benzoimidazole, 4,5,6,7-tetrahydro-benzothiazole, 4,5,6,7-tetrahydro-benzooxazole, 4,5,6,7-tetrahydro-5 benzo[c]isothiazole, 4,5,6,7-tetrahydro-benzo[c]isoxazole, 4,5,6,7-tetrahydro-2H-indazole, 4,5,6,7-tetrahydro-2H-isoindole, 4,5,6,7-tetrahydro-1H-indole, 5,6,7,8-tetrahydro-tetrazolo[1,5-a]pyridine, 5,6,7,8-tetrahydro-imidazo[1,2-a]pyridine, 10 4,5,6,7-tetrahydro-pyrazolo[1,5-a]pyridine, 5,6,7,8-tetrahydro-[1,2,4]triazolo[1,5-a]pyridine, 6,7-dihydro-5H-pyrrolo[1,2-c]imidazole, 6,7-dihydro-5H-pyrrolo[1,2-a]imidazole, 6,7-dihydro-5H-pyrrolo[1,2-b][1,2,4]triazole, 6,7-dihydro-5H-pyrrolotetrazole, 15 5,6-dihydro-4H-pyrrolo[1,2-b]pyrazole, 5,6-dihydro-4H-cyclopenta[d]isoxazole, 5,6-dihydro-4H-cyclopentaoxazole, 5,6-dihydro-4H-cyclopenta[c]isoxazole, 5,6-dihydro-4H-cyclopenta[d]isothiazole, 5,6-dihydro-4H-cyclopentathiazole, 5,6-dihydro-4H-cyclopenta[c]isothiazole, 1,4,5,6-tetrahydro-cyclopentapyrazole, 1,4,5,6-tetrahydro-cyclopentaimidazole, 2,4,5,6-tetrahydro-cyclopentapyrazole, 5,6-dihydro-4H-20 cyclopenta[1,2,5]thiadiazole, 5,6-dihydro-4H-cyclopenta[1,2,5]oxadiazole, 5,6-dihydro-4H-cyclopenta[c]furan, 2,4,5,6-tetrahydro-cyclopenta[c]pyrrole, 5,6-dihydro-4H-cyclopenta[b]furan, 5,6-dihydro-4H-cyclopenta[c]thiophene, 5,6-dihydro-4H-cyclopenta[b]furan, 5,6-dihydro-4H-cyclopenta[b]thiophene, 1,4,5,6-tetrahydro-cyclopenta[b]pyrrole, 2,3-dihydro-1H-indolizin-5-one, 6,7,8,9-tetrahydro-quinolizin-4-one, 1-oxa-35 spiro[4.4]nonane, 1-aza-spiro[4.4]nonane, 2-oxa-spiro[4.4]nonane, 2-aza-spiro[4.4]nonane, 1-aza-

spiro[4.5]decane, 1-oxa-spiro[4.5]decane, 2-oxa-spiro[4.5]decane, 2-aza-spiro[4.5]decane, 1-thia-spiro[4.4]nonane, 1-thia-spiro[4.5]decane, 2-thia-spiro[4.4]nonane, 2-thia-spiro[4.5]decane, 7-oxa-bicyclo[2.2.1]heptane, 2-oxa-bicyclo[2.2.1]heptane, 7-thia-bicyclo[2.2.1]heptane, 2-thia-bicyclo[2.2.1]heptane, 2-aza-bicyclo[2.2.1]heptane, 7-aza-bicyclo[2.2.1]heptane, 4,5,6,7-tetrahydro-benzo[d]isoxazole, 4,5,6,7-tetrahydro-benzooxazole, 4,5,6,7-tetrahydro-benzo[d]isothiazole, 4,5,6,7-tetrahydro-benzothiazole, 4,5,6,7-tetrahydro-1H-indazole, 4,5,6,7-tetrahydro-benzo[c]thiophene, 4,5,6,7-tetrahydro-benzo[b]thiophene, 4,5,6,7-tetrahydro-isobenzofuran, 4,5,6,7-tetrahydro-benzofuran, 5,6,7,8-tetrahydro-quinoxaline, 6,7-dihydro-5H-cyclopentapyrazine, 5,6,7,8-tetrahydro-imidazo[1,5-a]pyridine, 5,6,7,8-tetrahydro-imidazo[1,2-a]pyridine, 5,6,7,8-tetrahydro-[1,2,4]triazolo[1,5-a]pyridine, 5,6,7,8-tetrahydro-tetrazolo[1,5-a]pyridine, 4,5,6,7-tetrahydro-pyrazolo[1,5-a]pyridine, 6,7-dihydro-5H-pyrrolo[1,2-a]imidazole, 6,7-dihydro-5H-pyrrolo[1,2-b][1,2,4]triazole, 5,6-dihydro-4H-pyrrolo[1,2-b]pyrazole, and 6,7-dihydro-5H-pyrrolotetrazole;

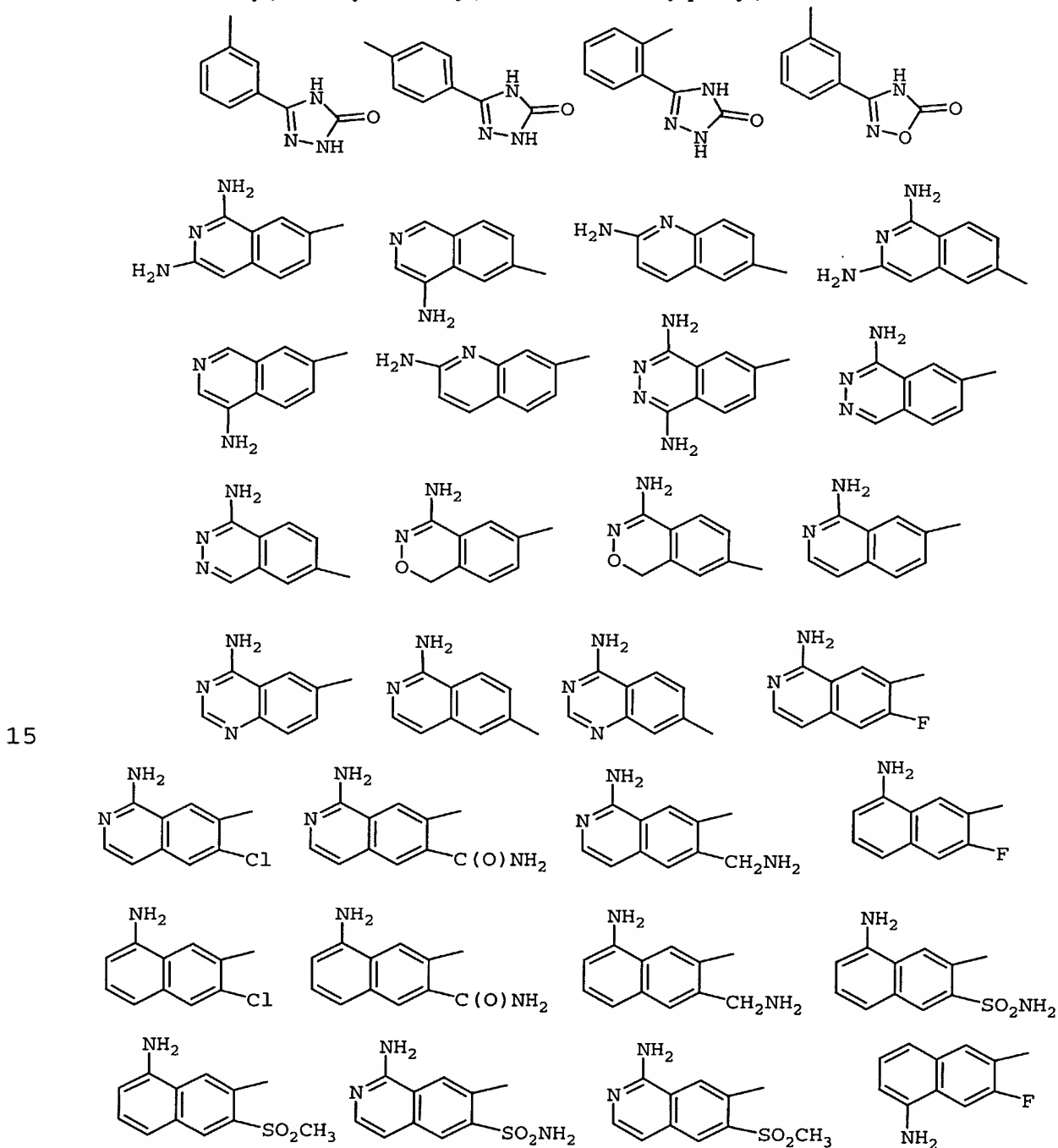
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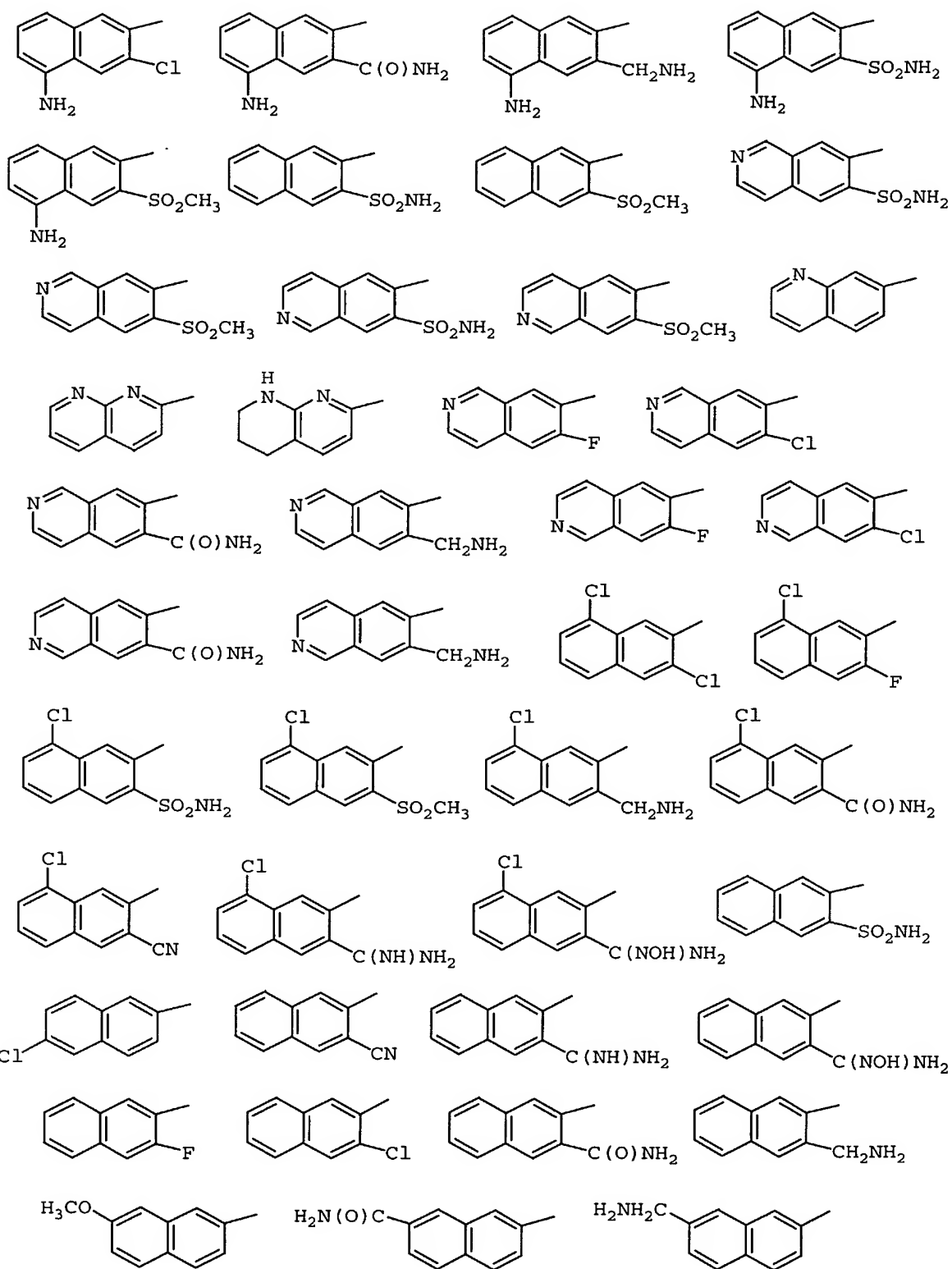
ring M is substituted with 0-3 R<sup>1a</sup> and 0-1 carbonyl group;

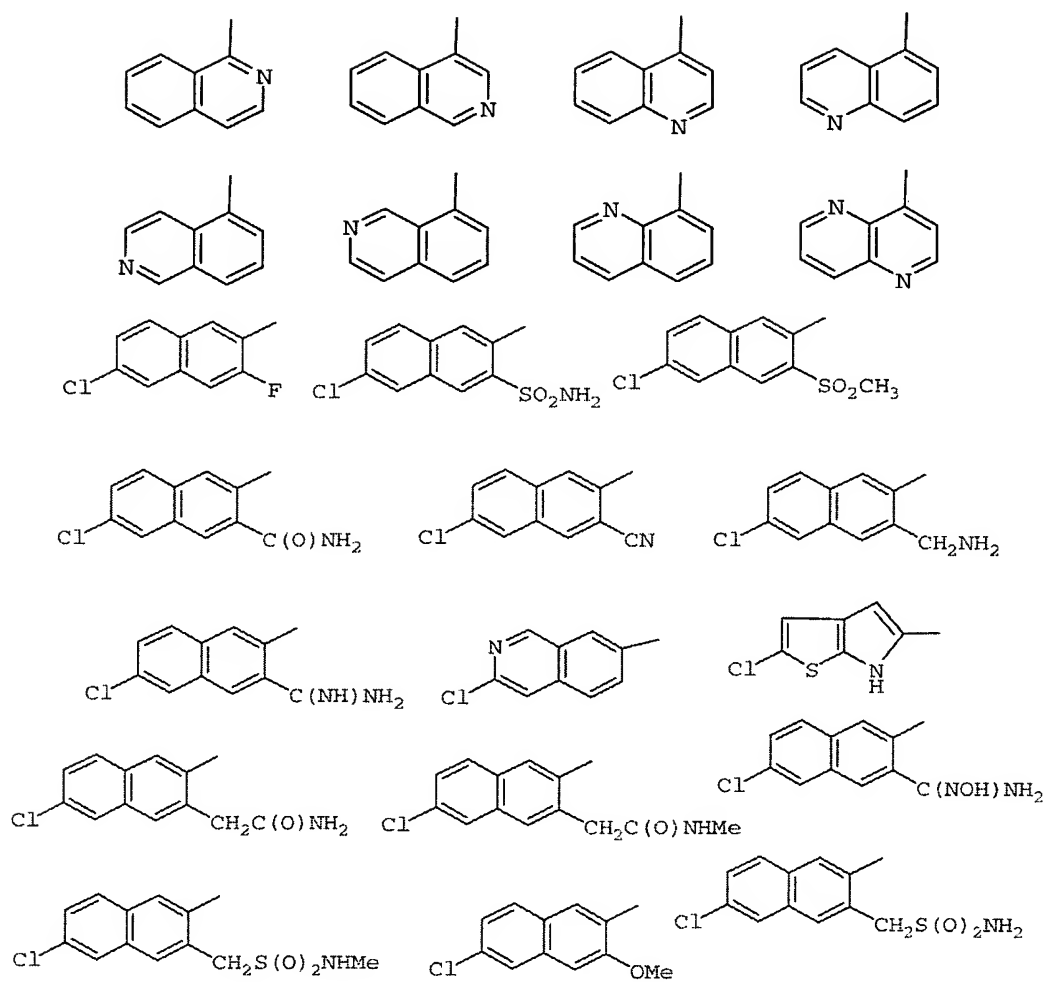
G is selected from the group:

phenyl; 4-ethyl-phenyl; 2,5-bis-aminomethyl-phenyl; 2-amido-4-methoxy-phenyl;  
 2-amido-5-chloro-phenyl; 2-amido-phenyl; 2-aminomethyl-3-fluoro-phenyl;  
 2-aminomethyl-3-methoxy-phenyl; 2-aminomethyl-4-fluoro-phenyl;  
 2-aminomethyl-4-methoxy-phenyl; 2-aminomethyl-5-fluoro-phenyl;  
 2-aminomethyl-5-methoxy-phenyl; 2-aminomethyl-6-fluoro-phenyl; 2-aminomethyl-phenyl;  
 2-amino-pyrid-4-yl; 2-aminosulfonyl-4-methoxy-phenyl; 2-aminosulfonyl-phenyl;  
 2-hydroxy-4-methoxy-phenyl; 2-methylsulfonyl-phenyl; 3-(N,N-dimethylamino)-4-chloro-phenyl;  
 3-(N,N-dimethylamino)-phenyl; 3-(N-hydroxy-amidino)-phenyl; 3-(N-methoxy-amidino)-phenyl;  
 3-(N-methylamino)-4-chloro-phenyl; 3-(N-methylamino)-phenyl; 3-amidino-phenyl;  
 3-amido-6-hydroxy-phenyl; 3-amido-phenyl; 3-amino-4-chloro-phenyl; 3-aminomethyl-phenyl;  
 3-amino-phenyl; 3-chloro-4-fluoro-phenyl; 3-chloro-phenyl; 3-hydroxy-4-methoxy-phenyl; 3,5-dichloro-thien-2-yl; 4-(N,N-dimethylamino)-5-chloro-thien-2-yl;  
 4-(N-methylamino)-5-chloro-thien-2-yl; 4-amino-5-chloro-thien-2-yl; 4-amino-pyrid-2-yl;  
 4-chloro-3-fluoro-phenyl; 4-chloro-phenyl; 4-chloro-pyrid-2-yl; 4-methoxy-2-methylsulfonyl-phenyl;

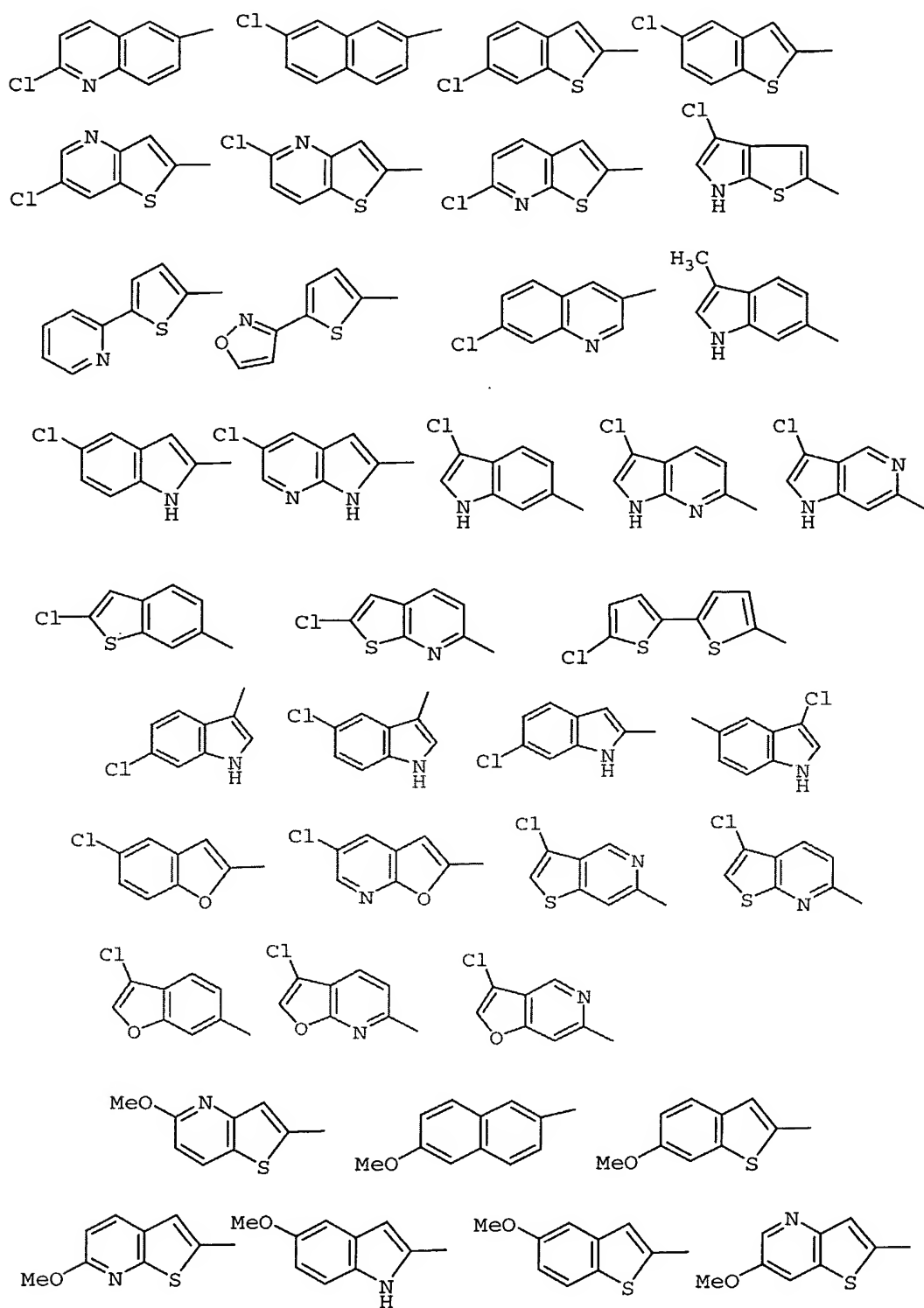
- 4-methoxy-phenyl; 2-methoxy-pyrid-5-yl; 5-(N,N-dimethylamino)-4-chloro-thien-2-yl;  
 5-(N-methylamino)-4-chloro-thien-2-yl; 5-amino-4-chloro-thien-2-yl;  
 5-chloro-2-aminosulfonyl-phenyl; 5-chloro-2-methylsulfonyl-phenyl; 5-chloro-pyrid-2-yl;  
 5-chloro-thien-2-yl; 5-methoxy-thien-2-yl; 6-amino-5-chloro-pyrid-2-yl; 6-amino-pyrid-2-yl; 5-  
 5-chloro-pyrimidin-3-yl; 6-chloro-pyridazin-3-yl; 2-aminomethyl-4-chloro-phenyl;  
 2-aminosulfonyl-4-chloro-phenyl; 2-amido-4-chloro-phenyl; 4-chloro-2-methylsulfonyl-phenyl;  
 2-aminosulfonyl-4-fluoro-phenyl; 2-amido-4-fluoro-phenyl; 4-fluoro-2-methylsulfonyl-phenyl;  
 2-aminomethyl-4-bromo-phenyl; 2-aminosulfonyl-4-bromo-phenyl; 2-amido-4-bromo-phenyl;  
 4-bromo-2-methylsulfonyl-phenyl; 2-aminomethyl-4-methyl-phenyl;  
 2-aminosulfonyl-4-methyl-phenyl; 2-amido-4-methyl-phenyl; 2-methylsulfonyl-4-methyl-phenyl;  
 4-fluoro-pyrid-2-yl; 4-bromo-pyrid-2-yl; 4-methyl-pyrid-2-yl; 5-fluoro-thien-2-yl;  
 5-bromo-thien-2-yl; 5-methyl-thien-2-yl; 2-amido-4-methoxy-phenyl;

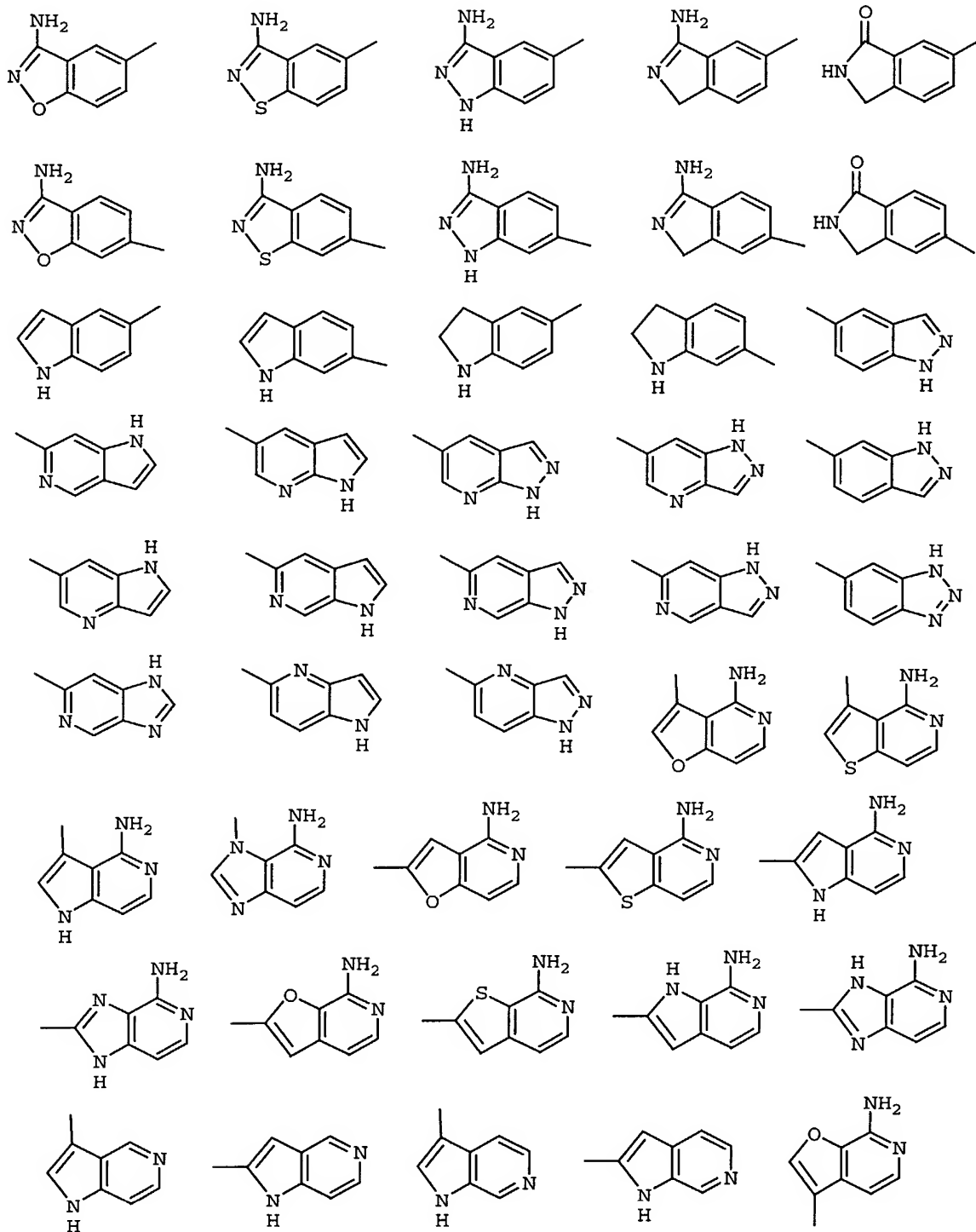


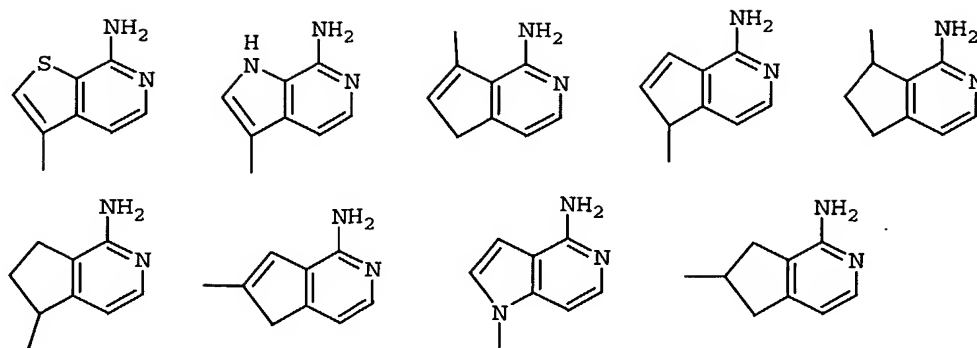












$G_1$  is absent or is selected from  $(CR^3R^3a)_{1-3}$ ,  $CR^3=CR^3$ ,

$(CR^3R^3a)_u C(O)(CR^3R^3a)_w$ ,  $(CR^3R^3a)_u O(CR^3R^3a)_w$ ,

5  $(CR^3R^3a)_u NR^{3b}(CR^3R^3a)_w$ ,  $(CR^3R^3a)_u C(O)NR^{3b}(CR^3R^3a)_w$ ,

$(CR^3R^3a)_u NR^{3b}C(O)(CR^3R^3a)_w$ ,

$(CR^3R^3a)_u NR^{3b}C(O)(CR^3R^3a)_u C(O)NR^{3b}(CR^3R^3a)_w$ ,

$(CR^3R^3a)_u S(CR^3R^3a)_w$ ,  $(CR^3R^3a)_u S(O)(CR^3R^3a)_w$ ,

$(CR^3R^3a)_u S(O)_2(CR^3R^3a)_w$ ,  $(CR^3R^3a)_u S(O)NR^{3b}(CR^3R^3a)_w$ ,

10  $(CR^3R^3a)_u NR^{3b}S(O)_2(CR^3R^3a)_w$ ,  $(CR^3R^3a)_u S(O)_2NR^{3b}(CR^3R^3a)_w$ ,

$(CR^3R^3a)_u C(O)NR^{3b}S(O)_2(CR^3R^3a)_w$ ,

$(CR^3R^3a)_u NR^{3b}C(S)(CR^3R^3a)_u C(O)NR^{3b}(CR^3R^3a)_w$ , and

$(CR^3R^3a)_u NR^{3b}C(O)(CR^3R^3a)_u C(S)NR^{3b}(CR^3R^3a)_w$ , wherein  $u$

+  $w$  total 0, 1, or 2, provided that  $G_1$  does not form a

15 N-S,  $NCH_2N$ ,  $NCH_2O$ , or  $NCH_2S$  bond with either group to which it is attached;

A is selected from one of the following carbocycles and heterocycles which are substituted with 0-2  $R^4$ ;

20 cyclohexyl, phenyl, piperidinyl, piperazinyl, pyridyl, pyrimidyl, furanyl, morpholinyl, thienyl, pyrrolyl, pyrrolidinyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, pyrazolyl, imidazolyl, 1,2,3-oxadiazolyl, 1,2,4-oxadiazolyl, 1,2,5-oxadiazolyl, 1,3,4-oxadiazolyl, 1,2,3-thiadiazolyl, 1,2,4-thiadiazolyl, 1,2,5-thiadiazolyl, 1,3,4-thiadiazolyl,

25

1,2,3-triazolyl, 1,2,4-triazolyl, 1,2,5-triazolyl,  
1,3,4-triazolyl, benzofuranyl, benzothiofuranyl,  
indolyl, indolyl, benzimidazolyl, benzoxazolyl,  
benzthiazolyl, indazolyl, benzisoxazolyl,  
5 benzisothiazolyl, and isoindazolyl;

X is selected from  $-(CR^2R^{2a})_{1-2}-$ ,  $-C(O)-$ ,  $-S(O)_2-$ ,  
 $-NR^2S(O)_2-$ ,  $-NR^2S(O)_2NR^2-$ ,  $-NR^2C(O)-$ ,  $-C(O)NR^2-$ ,  $NR^2$ ,  
10  $-NR^2CR^2R^{2a}-$ ,  $-CR^2R^{2a}NR^2-$ , O,  $-OCR^2R^{2a}-$ , and  $-CR^2R^{2a}O-$ ;

Y is a  $C_{3-6}$  monocyclic carbocycle or 5-6 membered monocyclic  
heterocycle, wherein the carbocycle or heterocycle  
consists of carbon atoms and 0-2 heteroatoms selected  
from N, O, and  $S(O)_p$ , the carbocycle or heterocycle  
15 further comprises 0-1 double bonds and 0-1 carbonyl  
groups, and the carbocycle or heterocycle is  
substituted with 0-2  $R^4$ ;

alternatively, Y is  $CY^1Y^2$ , and  $Y^1$  and  $Y^2$  are independently  
20  $C_{1-2}$  alkyl substituted with 0-1  $R^4$ ;

$R^{1a}$ , at each occurrence, is selected from H,  $R^{1b}$ ,  
 $CH(CH_3)R^{1b}$ ,  $C(CH_3)_2R^{1b}$ ,  $CH_2R^{1b}$ , and  $CH_2CH_2R^{1b}$ , provided  
that  $R^{1a}$  forms other than an N-halo, N-S, or N-CN bond;

25 alternatively, when two  $R^{1a}$  groups are attached to adjacent  
atoms or to the same carbon atom, together with the  
atoms to which they are attached, they form a 5-6  
membered ring consisting of: carbon atoms and 0-2  
30 heteroatoms selected from the group consisting of N,  
O, and  $S(O)_p$ , this ring being substituted with 0-2  $R^{4b}$   
and comprising: 0-3 double bonds;

$R^{1b}$  is selected from H,  $CH_3$ ,  $CH_2CH_3$ , F, Cl, Br, -CN, -CHO,  $CF_3$ ,  $OR^2$ ,  $NR^2R^{2a}$ ,  $C(O)R^{2b}$ ,  $CO_2R^{2b}$ ,  $OC(O)R^2$ ,  $CO_2R^{2a}$ ,  $S(O)_pR^2$ ,  $NR^2(CH_2)_rOR^2$ ,  $NR^2C(O)R^{2b}$ ,  $C(O)NR^2R^{2a}$ ,  $SO_2NR^2R^{2a}$ ,  $NR^2SO_2R^2$ ,  $C_{3-6}$  carbocycle substituted with 0-2  $R^{4b}$ , and 5-6 membered aromatic heterocycle consisting of carbon atoms and from 1-4 heteroatoms selected from the group consisting of N, O, and  $S(O)_p$  and substituted with 0-2  $R^{4b}$ , provided that  $R^{1b}$  forms other than an O-O, N-halo, N-S, or N-CN bond;

10

$R^2$ , at each occurrence, is selected from H,  $CF_3$ ,  $CH_3$ ,  $CH_2CH_3$ ,  $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ , phenyl substituted with 0-2  $R^{4b}$ , benzyl substituted with 0-2  $R^{4b}$ , and 5-6 membered aromatic heterocycle substituted with 0-2  $R^{4b}$  and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and  $S(O)_p$ ;

15

$R^{2a}$ , at each occurrence, is selected from H,  $CF_3$ ,  $CH_3$ ,  $CH_2CH_3$ ,  $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ , benzyl,  $C_{3-6}$  carbocycle substituted with 0-2  $R^{4b}$ , and 5-6 membered aromatic heterocycle substituted with 0-2  $R^{4b}$  and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and  $S(O)_p$ ;

20

$R^{2b}$ , at each occurrence, is selected from  $CF_3$ ,  $C_{1-4}$  alkoxy,  $C_{1-5}$  alkyl substituted with 0-3  $R^{4b}$ , benzyl,  $C_{3-6}$  carbocycle substituted with 0-2  $R^{4b}$ , and 4-6 membered substituted with 0-2  $R^{4b}$  and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and  $S(O)_p$ ;

25  
30

$R^{2c}$ , at each occurrence, is selected from  $CF_3$ , OH,  $OCH_3$ ,  $OCH_2CH_3$ ,  $OCH_2CH_2CH_3$ ,  $OCH(CH_3)_2$ ,  $CH_3$ ,  $CH_2CH_3$ ,  $CH_2CH_2CH_3$ ,

CH(CH<sub>3</sub>)<sub>2</sub>, benzyl, phenyl substituted with 0-2 R<sup>4b</sup>, and  
5 5-6 membered aromatic heterocycle substituted with 0-2  
R<sup>4b</sup> and consisting of carbon atoms and from 1-4  
heteroatoms selected from the group consisting of N,  
O, and S(O)<sub>p</sub>;

alternatively, R<sup>2</sup> and R<sup>2a</sup>, together with the nitrogen atom  
to which they are attached, combine to form a 3-6  
10 membered saturated, partially saturated or unsaturated  
ring substituted with 0-2 R<sup>4b</sup> and consisting of: 0-1  
additional heteroatoms selected from the group  
consisting of N, O, and S(O)<sub>p</sub>;

R<sup>2d</sup>, at each occurrence, is selected from H, R<sup>4c</sup>, C<sub>1-4</sub> alkyl  
15 substituted with 0-2 R<sup>4c</sup>, C<sub>3-6</sub> carbocycle substituted  
with 0-2 R<sup>4c</sup>, -(CR<sup>3</sup>R<sup>3a</sup>)-C<sub>3-6</sub> carbocycle substituted with  
0-2 R<sup>4c</sup>, 5-6 membered heterocycle substituted with 0-2  
R<sup>4c</sup> and consisting of: carbon atoms and 1-4  
heteroatoms selected from the group consisting of N,  
20 O, and S(O)<sub>p</sub>, and -(CR<sup>3</sup>R<sup>3a</sup>)-5-6 membered heterocycle  
substituted with 0-2 R<sup>4c</sup> and consisting of: carbon  
atoms and 1-4 heteroatoms selected from the group  
consisting of N, O, and S(O)<sub>p</sub>, provided that R<sup>2d</sup> forms  
other than a N-halo, N-C-halo, S(O)<sub>p</sub>-halo, O-halo, N-  
25 S, S-N, S(O)<sub>p</sub>-S(O)<sub>p</sub>, S-O, O-N, O-S, or O-O moiety;

R<sup>2e</sup>, at each occurrence, is selected from H, R<sup>4c</sup>, C<sub>1-4</sub> alkyl  
substituted with 0-2 R<sup>4c</sup>, C<sub>3-6</sub> carbocycle substituted  
with 0-2 R<sup>4c</sup>, -(CR<sup>3</sup>R<sup>3a</sup>)-C<sub>3-6</sub> carbocycle substituted with  
30 0-2 R<sup>4c</sup>, 5-6 membered heterocycle substituted with 0-2  
R<sup>4c</sup> consisting of: carbon atoms and 1-4 heteroatoms  
selected from the group consisting of N, O, and S(O)<sub>p</sub>,  
and -(CR<sup>3</sup>R<sup>3a</sup>)-5-6 membered heterocycle substituted with  
0-2 R<sup>4c</sup> and consisting of: carbon atoms and 1-4

heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>, provided that R<sup>2e</sup> forms other than a C(O)-halo or C(O)-S(O)<sub>p</sub> moiety;

5 R<sup>4</sup>, at each occurrence, is selected from H, (CH<sub>2</sub>)<sub>2</sub>OR<sup>2</sup>, CH<sub>2</sub>OR<sup>2</sup>, OR<sup>2</sup>, F, Cl, Br, I, CH<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH(CH<sub>3</sub>)<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>, CH(CH<sub>3</sub>)CH<sub>2</sub>CH<sub>3</sub>, C(CH<sub>3</sub>)<sub>3</sub>, -CN, NO<sub>2</sub>, NR<sup>2</sup>R<sup>2a</sup>, CH<sub>2</sub>NR<sup>2</sup>R<sup>2a</sup>, (CH<sub>2</sub>)<sub>2</sub>NR<sup>2</sup>R<sup>2a</sup>, C(O)R<sup>2c</sup>, NR<sup>2</sup>C(O)R<sup>2b</sup>, C(O)NR<sup>2</sup>R<sup>2a</sup>, SO<sub>2</sub>NR<sup>2</sup>R<sup>2a</sup>, CF<sub>3</sub>, and  
10 CF<sub>2</sub>CF<sub>3</sub>;

R<sup>4a</sup> is selected from -(CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-5-6 membered carbocycle substituted with 0-3 R<sup>4c</sup>, -(CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-5-6 membered heterocycle substituted with 0-3 R<sup>4c</sup> and consisting of:  
15 carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>NR<sup>2d</sup>R<sup>2d</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>N(→O)R<sup>2d</sup>R<sup>2d</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>OR<sup>2d</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-NR<sup>2d</sup>C(O)R<sup>2e</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-C(O)R<sup>2e</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-OC(O)R<sup>2e</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-C(O)NR<sup>2d</sup>R<sup>2d</sup>,  
20 (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-C(O)OR<sup>2d</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-NR<sup>2d</sup>C(O)NR<sup>2d</sup>R<sup>2d</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-NR<sup>2d</sup>C(O)OR<sup>2d</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-SO<sub>2</sub>NR<sup>2d</sup>R<sup>2d</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-NR<sup>2d</sup>SO<sub>2</sub>R<sup>2d</sup>, and (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-S(O)<sub>p</sub>R<sup>2d</sup>, provided that S(O)<sub>p</sub>R<sup>2d</sup> forms other than S(O)<sub>2</sub>H or S(O)H;

25 R<sup>4b</sup>, at each occurrence, is selected from H, =O, OR<sup>3</sup>, CH<sub>2</sub>OR<sup>3</sup>, F, Cl, CH<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH(CH<sub>3</sub>)<sub>2</sub>, -CN, NO<sub>2</sub>, NR<sup>3</sup>R<sup>3a</sup>, CH<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, C(O)R<sup>3</sup>, CH<sub>2</sub>-C(O)R<sup>3</sup>, C(O)OR<sup>3c</sup>, CH<sub>2</sub>-C(O)OR<sup>3c</sup>, NR<sup>3</sup>C(O)R<sup>3a</sup>, CH<sub>2</sub>NR<sup>3</sup>C(O)R<sup>3a</sup>, C(O)NR<sup>3</sup>R<sup>3a</sup>, CH<sub>2</sub>-C(O)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, CH<sub>2</sub>SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>SO<sub>2</sub>-C<sub>1-4</sub> alkyl, CH<sub>2</sub>NR<sup>3</sup>SO<sub>2</sub>-C<sub>1-4</sub> alkyl, NR<sup>3</sup>SO<sub>2</sub>-phenyl, CH<sub>2</sub>NR<sup>3</sup>SO<sub>2</sub>-phenyl,  
30 S(O)<sub>p</sub>CF<sub>3</sub>, CH<sub>2</sub>S(O)<sub>p</sub>CF<sub>3</sub>, S(O)<sub>p</sub>-C<sub>1-4</sub> alkyl, CH<sub>2</sub>S(O)<sub>p</sub>-C<sub>1-4</sub> alkyl, S(O)<sub>p</sub>-phenyl, CH<sub>2</sub>S(O)<sub>p</sub>-phenyl, and CF<sub>3</sub>;

$R^{4c}$ , at each occurrence, is selected from =O,  $OR^2$ ,  
 $(CR^3R^{3a})OR^2$ , F,  $(CR^3R^{3a})F$ , Br,  $(CR^3R^{3a})Br$ , Cl,  
 $(CR^3R^{3a})Cl$ ,  $CF_3$ ,  $(CR^3R^{3a})CF_3$ ,  $C_{1-4}$  alkyl,  $C_{2-3}$  alkenyl,  
5  $C_{2-3}$  alkynyl, -CN,  $(CR^3R^{3a})CN$ ,  $NO_2$ ,  $(CR^3R^{3a})NO_2$ ,  $NR^2R^{2a}$ ,  
 $(CR^3R^{3a})NR^2R^{2a}$ ,  $N(\rightarrow O)R^2R^{2a}$ ,  $(CR^3R^{3a})N(\rightarrow O)R^2R^{2a}$ ,  $C(O)R^{2c}$ ,  
 $(CR^3R^{3a})C(O)R^{2c}$ ,  $NR^2C(O)R^{2b}$ ,  $(CR^3R^{3a})NR^2C(O)R^{2b}$ ,  
 $C(O)NR^2R^{2a}$ ,  $(CR^3R^{3a})C(O)NR^2R^{2a}$ ,  $NR^2C(O)NR^2R^{2a}$ ,  
 $(CR^3R^{3a})NR^2C(O)NR^2R^{2a}$ ,  $SO_2NR^2R^{2a}$ ,  $(CR^3R^{3a})SO_2NR^2R^{2a}$ ,  
10  $NR^2SO_2NR^2R^{2a}$ ,  $(CR^3R^{3a})NR^2SO_2NR^2R^{2a}$ ,  $NR^2SO_2R^{5a}$ ,  
 $(CR^3R^{3a})NR^2SO_2R^{5a}$ ,  $S(O)_pR^{5a}$ ,  $(CR^3R^{3a})S(O)_pR^{5a}$ ,  $CF_3$ ,  
 $CF_2CF_3$ ,  $C_{3-10}$  carbocycle substituted with 0-2  $R^{4b}$ ,  
 $(CR^3R^{3a})C_{3-10}$  carbocycle substituted with 0-2  $R^{4b}$ , 5-10  
membered heterocycle substituted with 0-2  $R^{4b}$  and  
15 consisting of carbon atoms and from 1-4 heteroatoms  
selected from the group consisting of N, O, and  $S(O)_p$ ,  
and  $(CR^3R^{3a})$  5-10 membered heterocycle substituted with  
0-2  $R^{4b}$  and consisting of carbon atoms and from 1-4  
heteroatoms selected from the group consisting of N,  
20 O, and  $S(O)_p$ ;

$R^5$ , at each occurrence, is selected from H, =O,  $CH_3$ ,  $CH_2CH_3$ ,  
 $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ ,  $OR^3$ ,  $CH_2OR^3$ , F, Cl, -CN,  $NO_2$ ,  
 $NR^3R^{3a}$ ,  $CH_2NR^3R^{3a}$ ,  $C(O)R^3$ ,  $CH_2C(O)R^3$ ,  $C(O)OR^{3c}$ ,  
25  $CH_2C(O)OR^{3c}$ ,  $NR^3C(O)R^{3a}$ ,  $C(O)NR^3R^{3a}$ ,  $SO_2NR^3R^{3a}$ ,  
 $NR^3SO_2-C_{1-4}$  alkyl,  $NR^3SO_2CF_3$ ,  $NR^3SO_2$ -phenyl,  $S(O)_pCF_3$ ,  
 $S(O)_p-C_{1-4}$  alkyl,  $S(O)_p$ -phenyl,  $CF_3$ , phenyl substituted  
with 0-2  $R^6$ , naphthyl substituted with 0-2  $R^6$ , and  
benzyl substituted with 0-2  $R^6$ ;

30

$R^6$ , at each occurrence, is selected from H, OH,  $OR^2$ , F, Cl,  
 $CH_3$ ,  $CH_2CH_3$ ,  $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ , -CN,  $NO_2$ ,  $NR^2R^{2a}$ ,

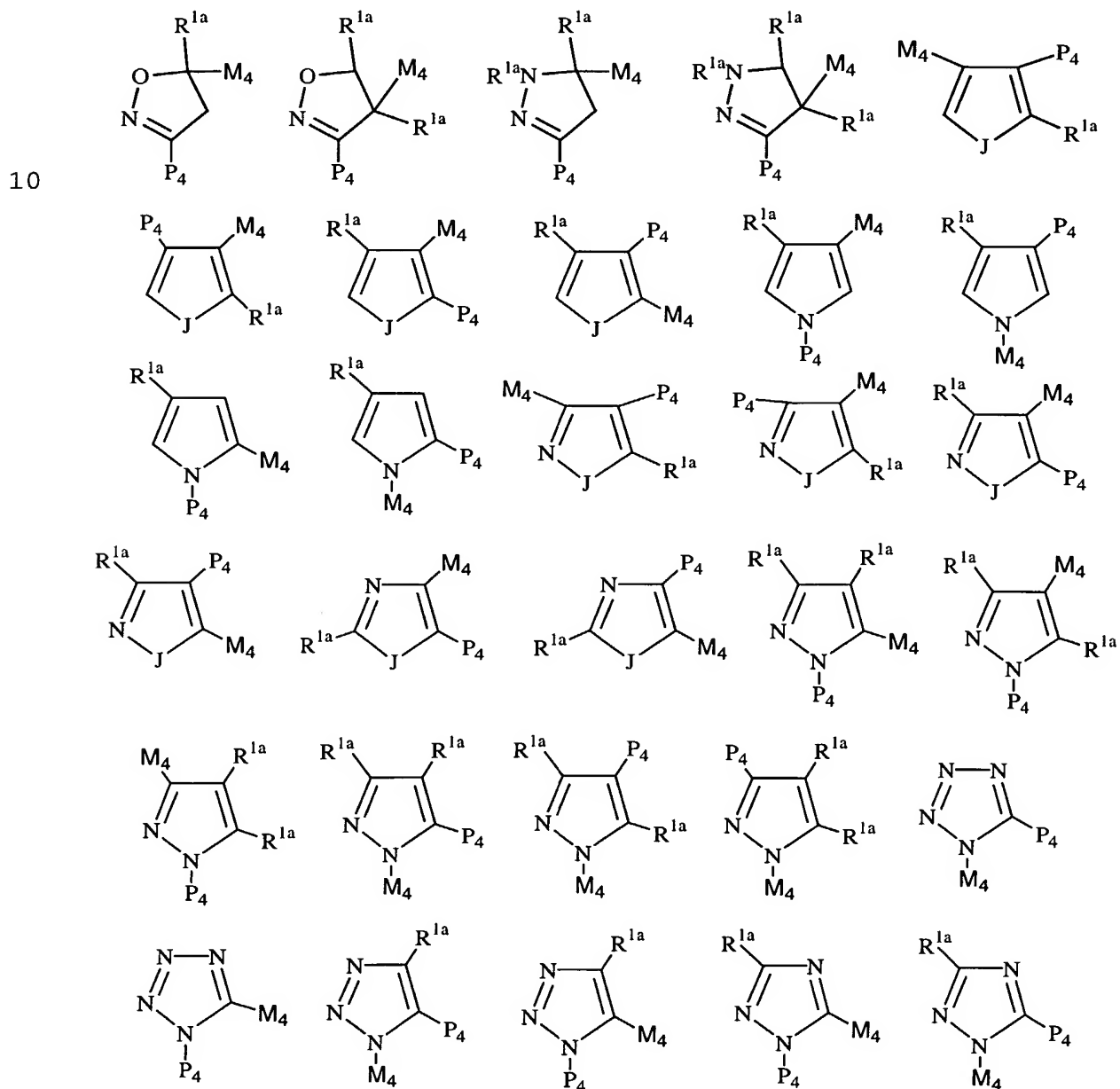


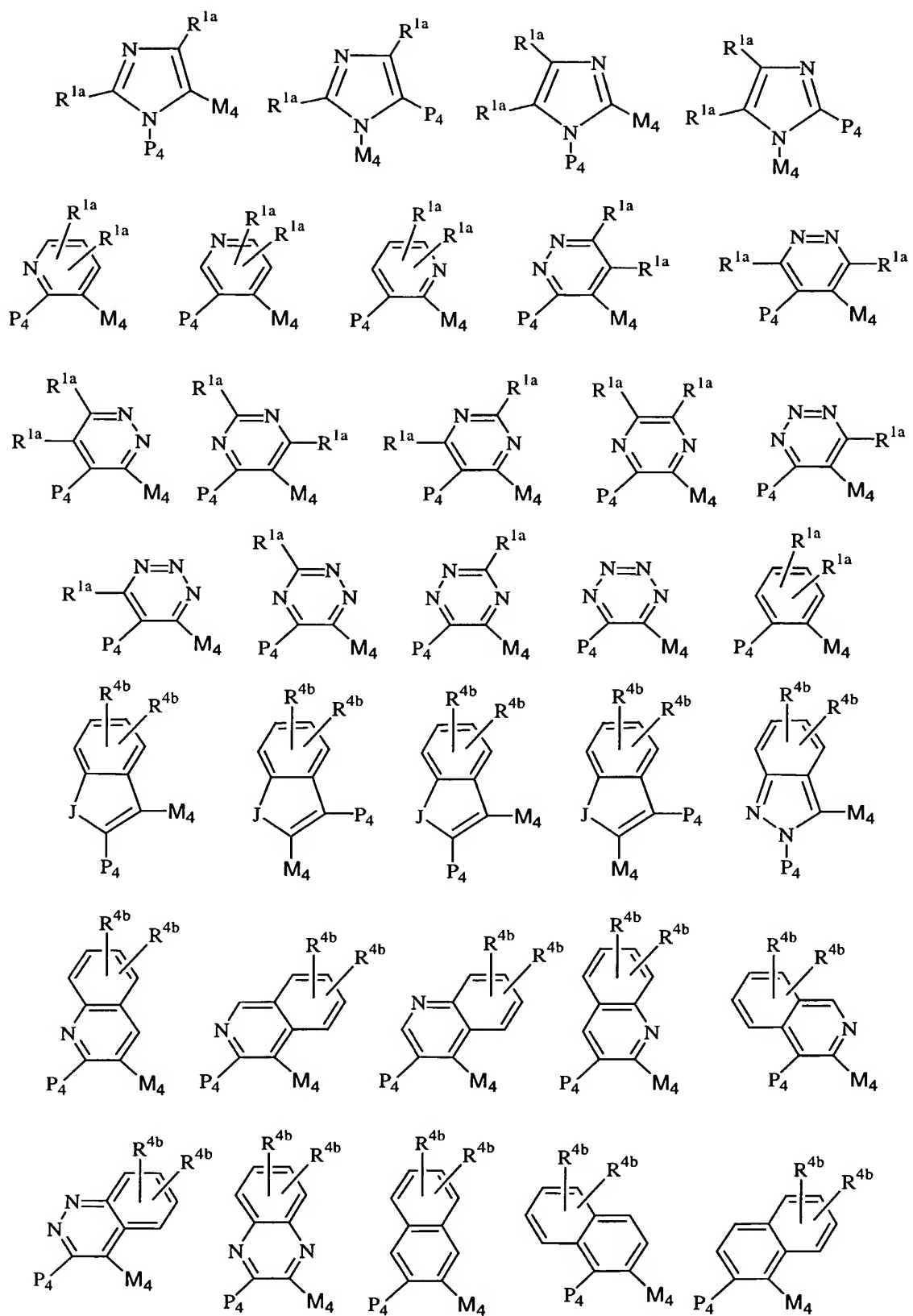
$\text{CH}_2\text{NR}^2\text{R}^{2a}$ ,  $\text{C}(\text{O})\text{R}^{2b}$ ,  $\text{CH}_2\text{C}(\text{O})\text{R}^{2b}$ ,  $\text{NR}^2\text{C}(\text{O})\text{R}^{2b}$ ,  $\text{SO}_2\text{NR}^2\text{R}^{2a}$ ,  
and  $\text{NR}^2\text{SO}_2\text{C}_{1-4}$  alkyl; and,

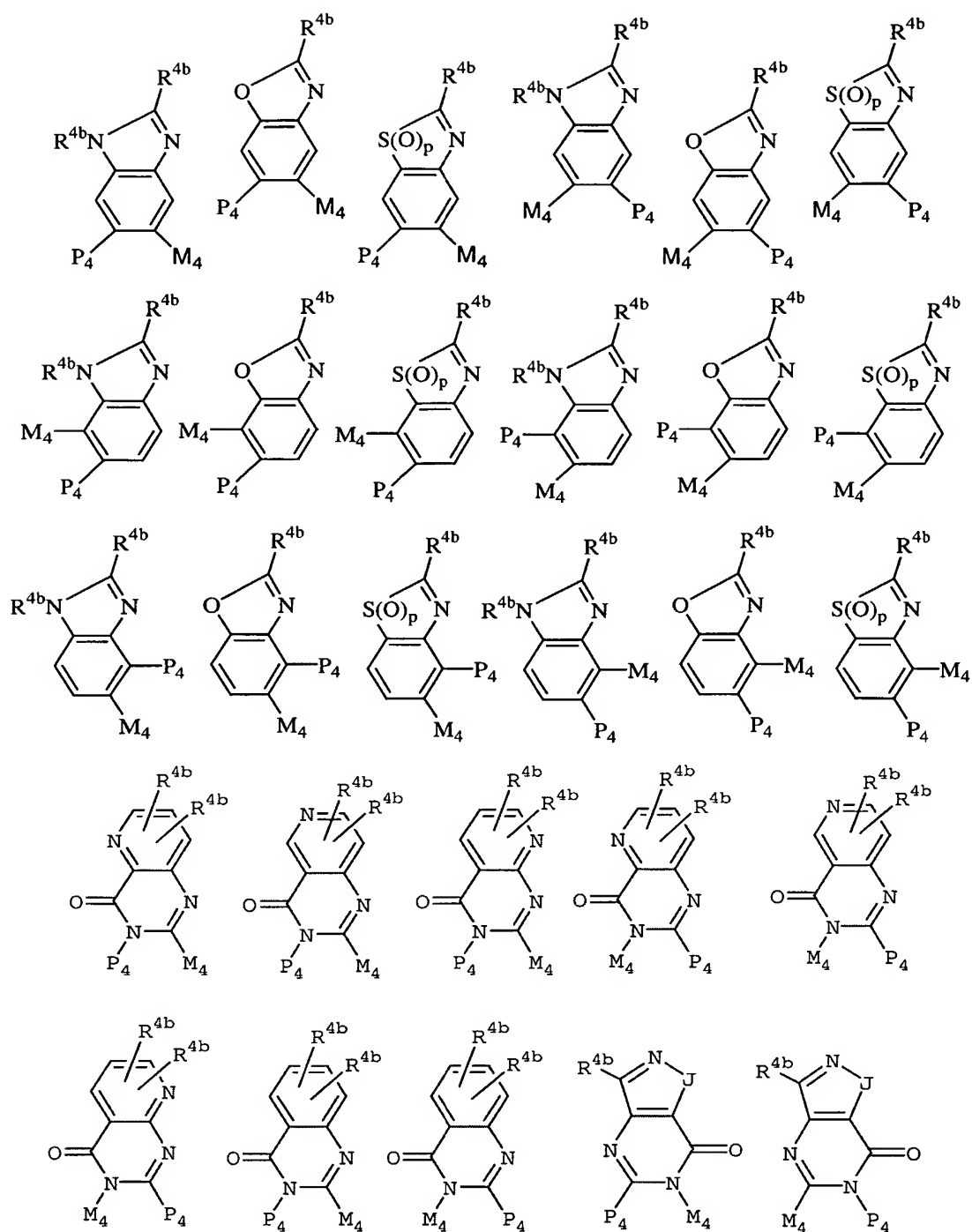
$r$ , at each occurrence, is selected from 0, 1, and 2.

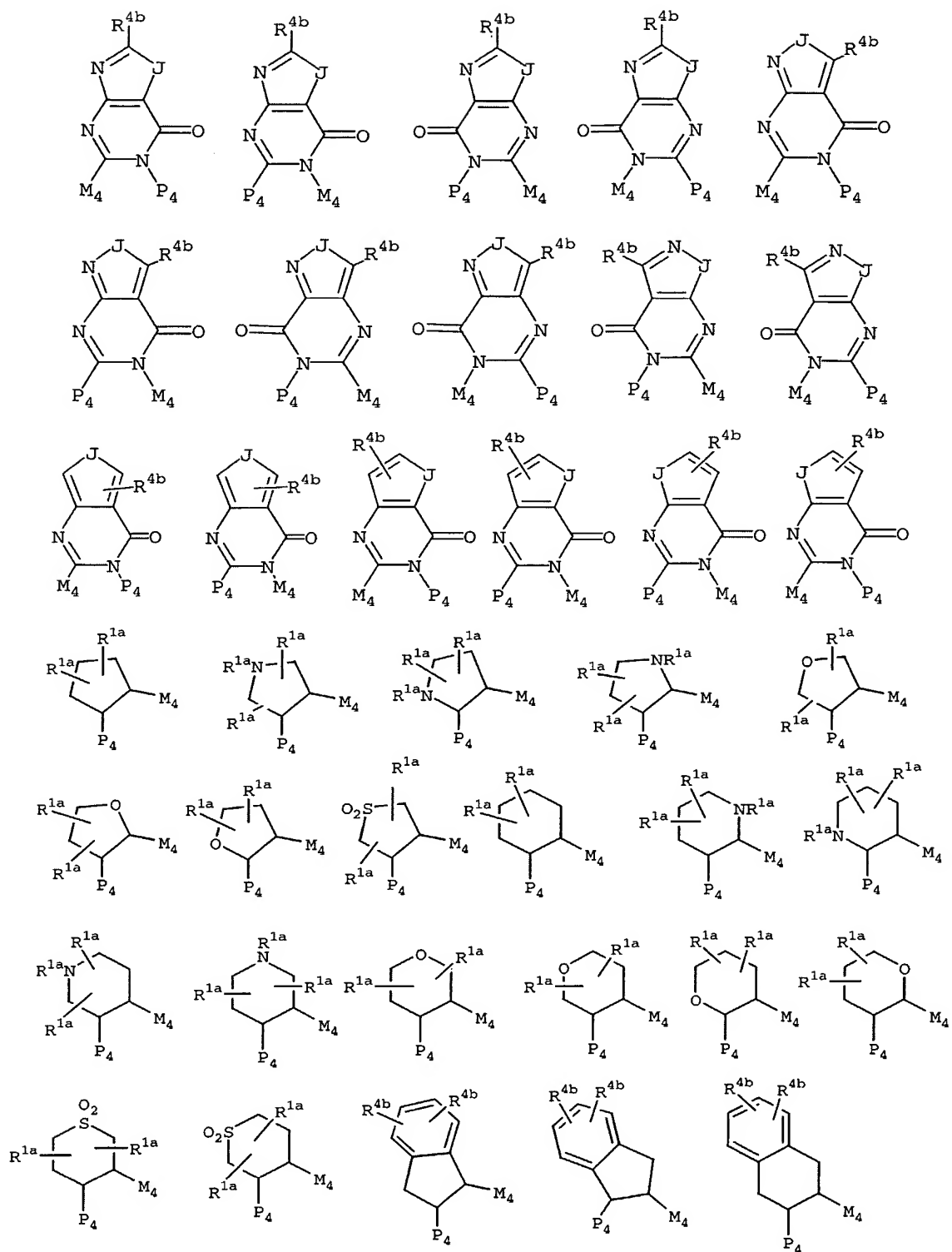
5

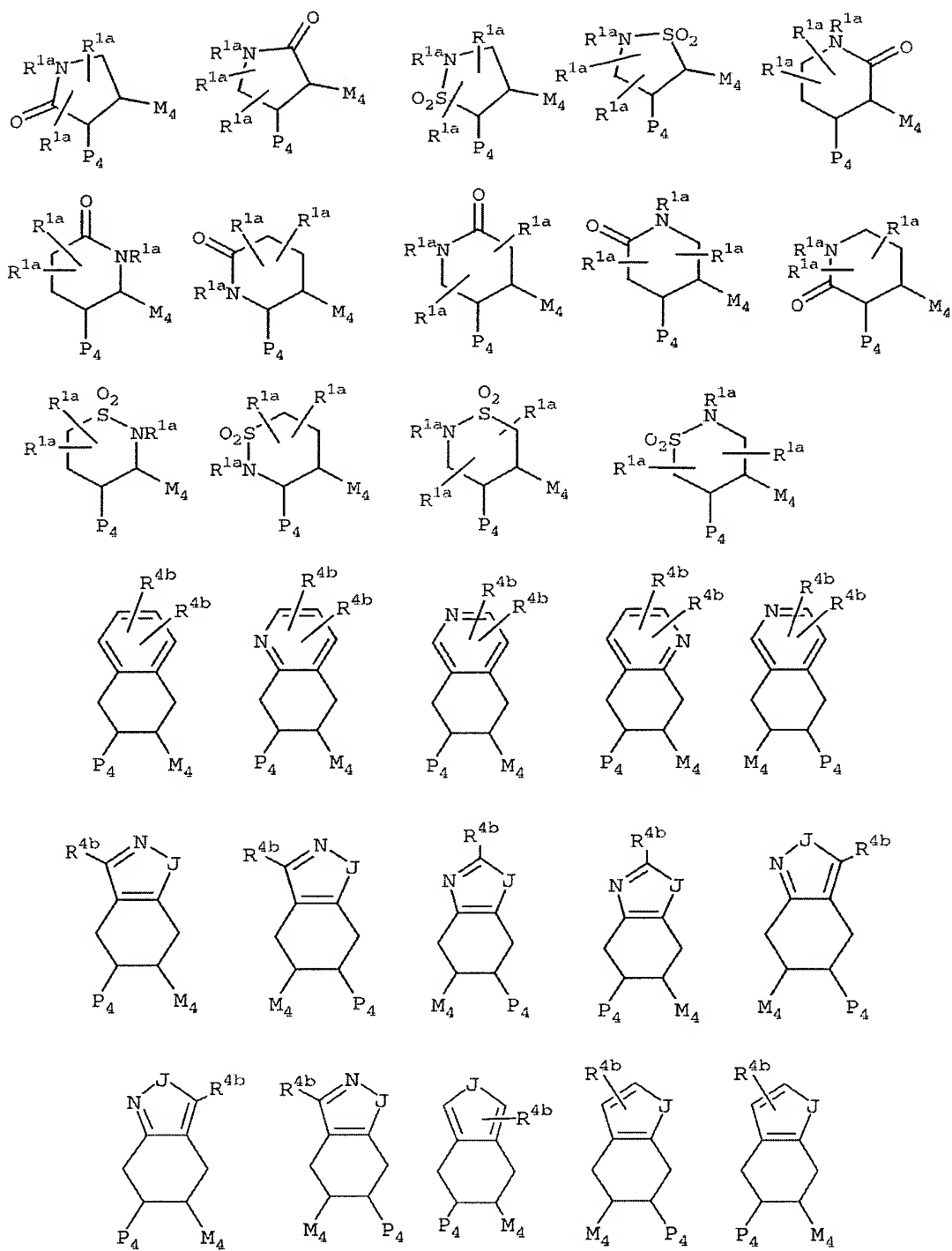
11. A compound according to Claim 10, wherein: the compound is selected from:

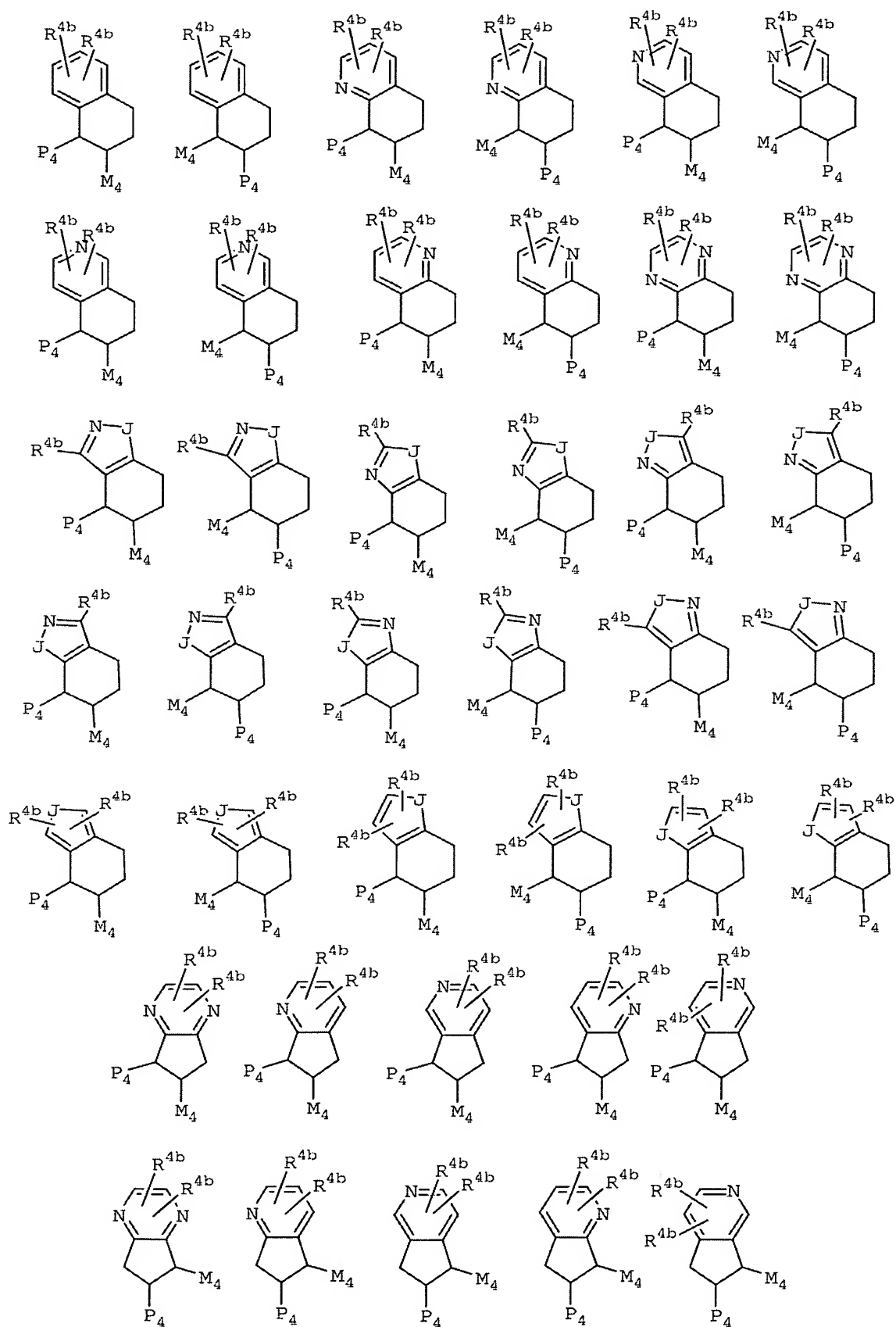


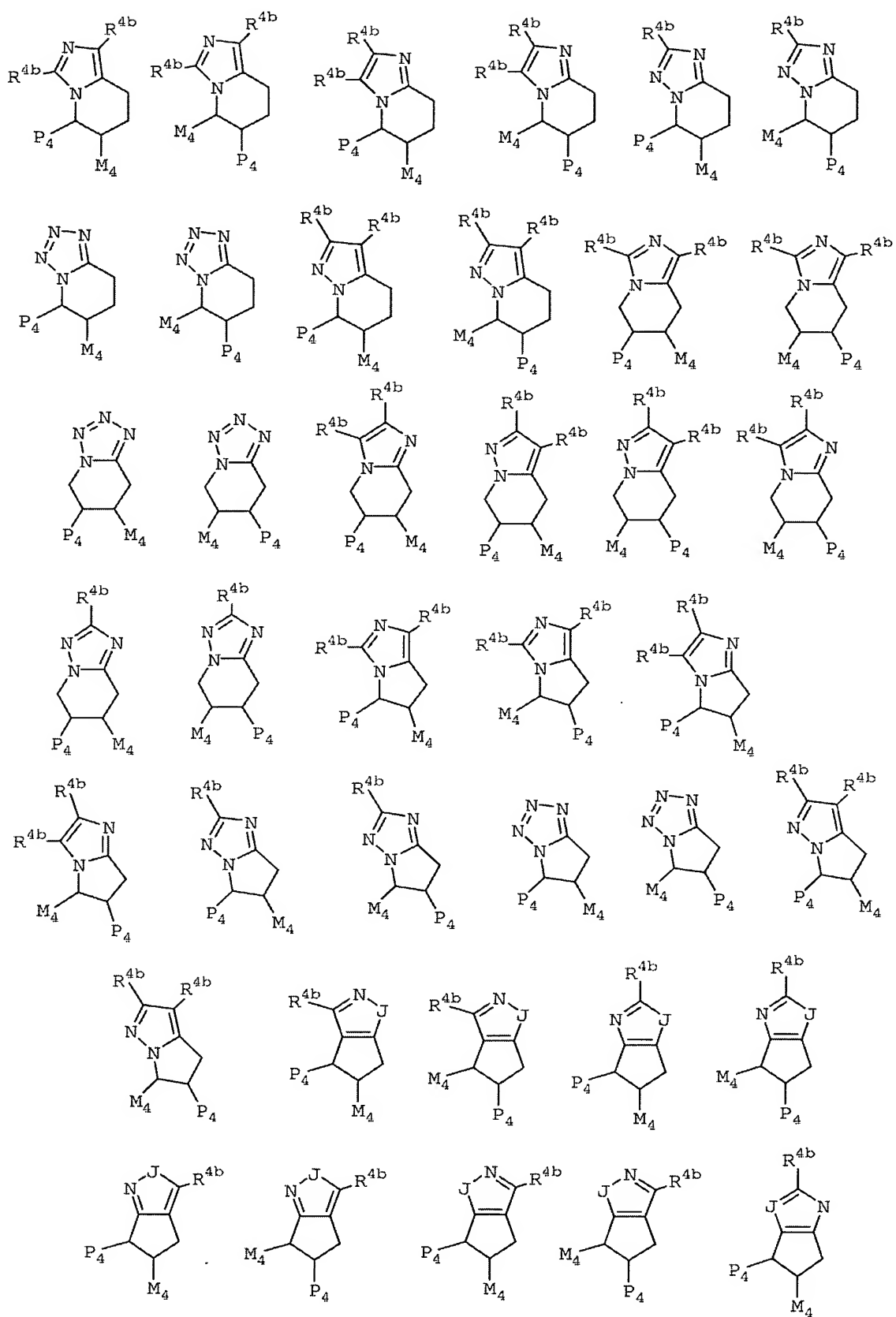


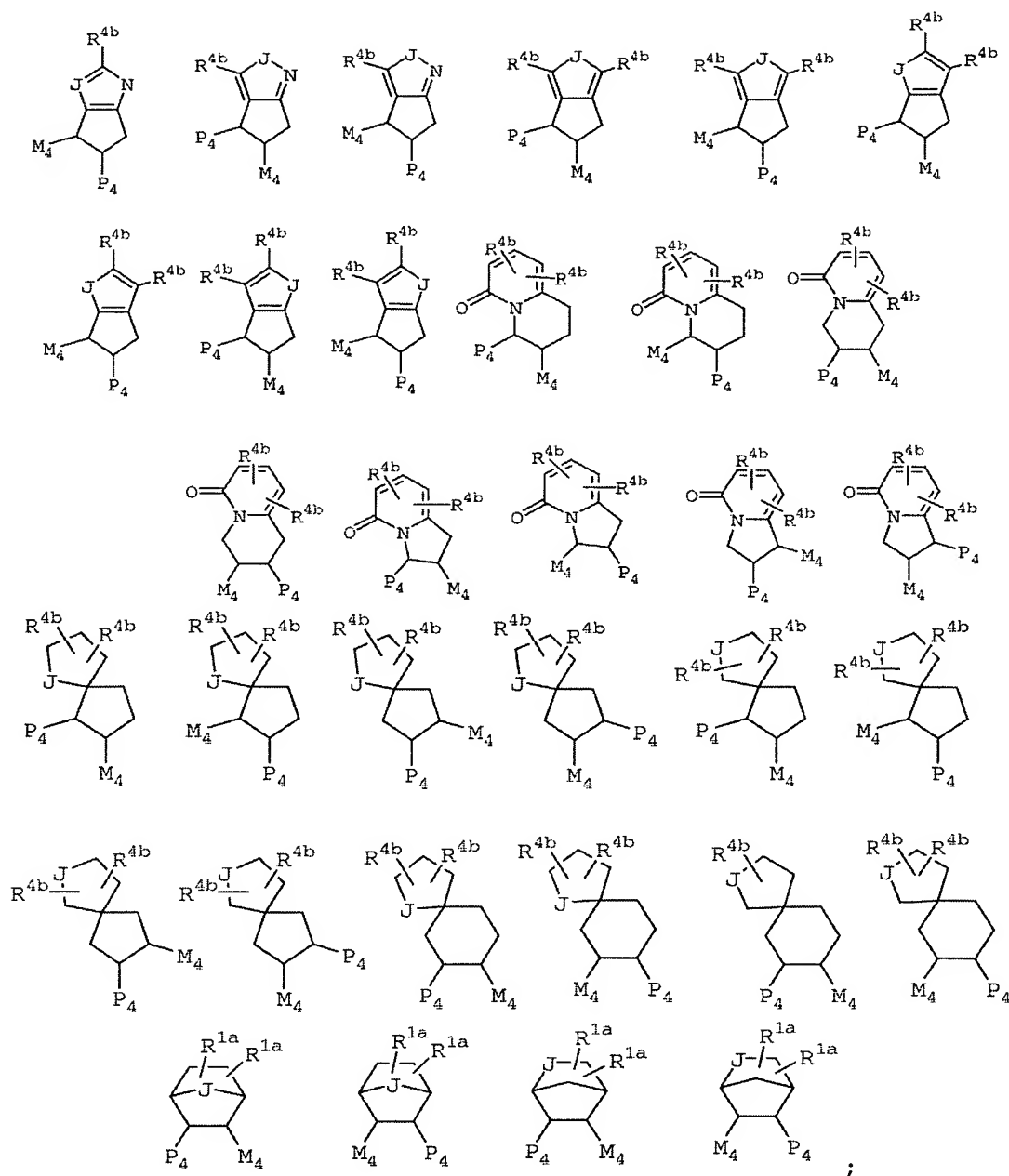












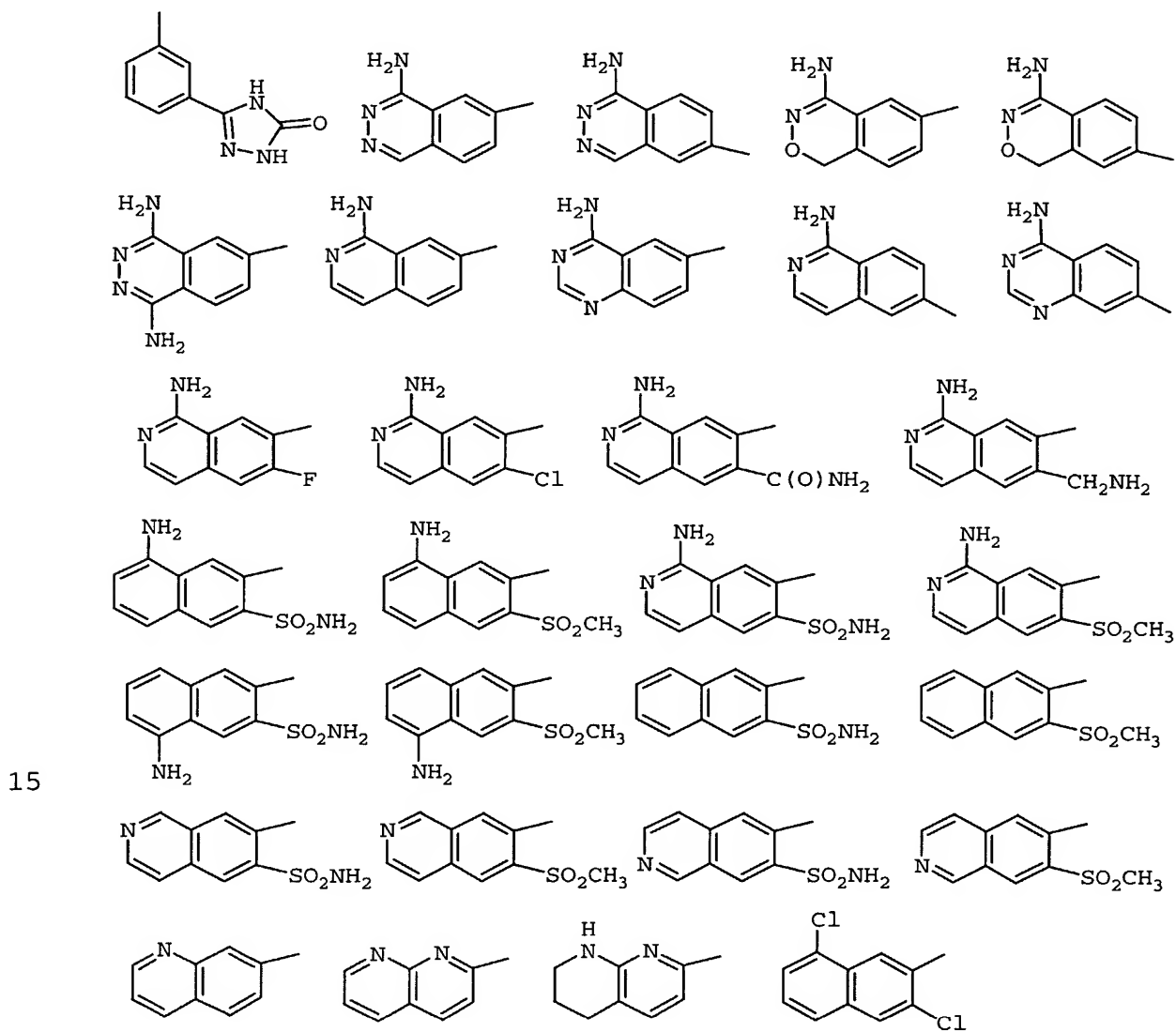
5 J is selected from O, S, NH, and NR<sup>1a</sup>;

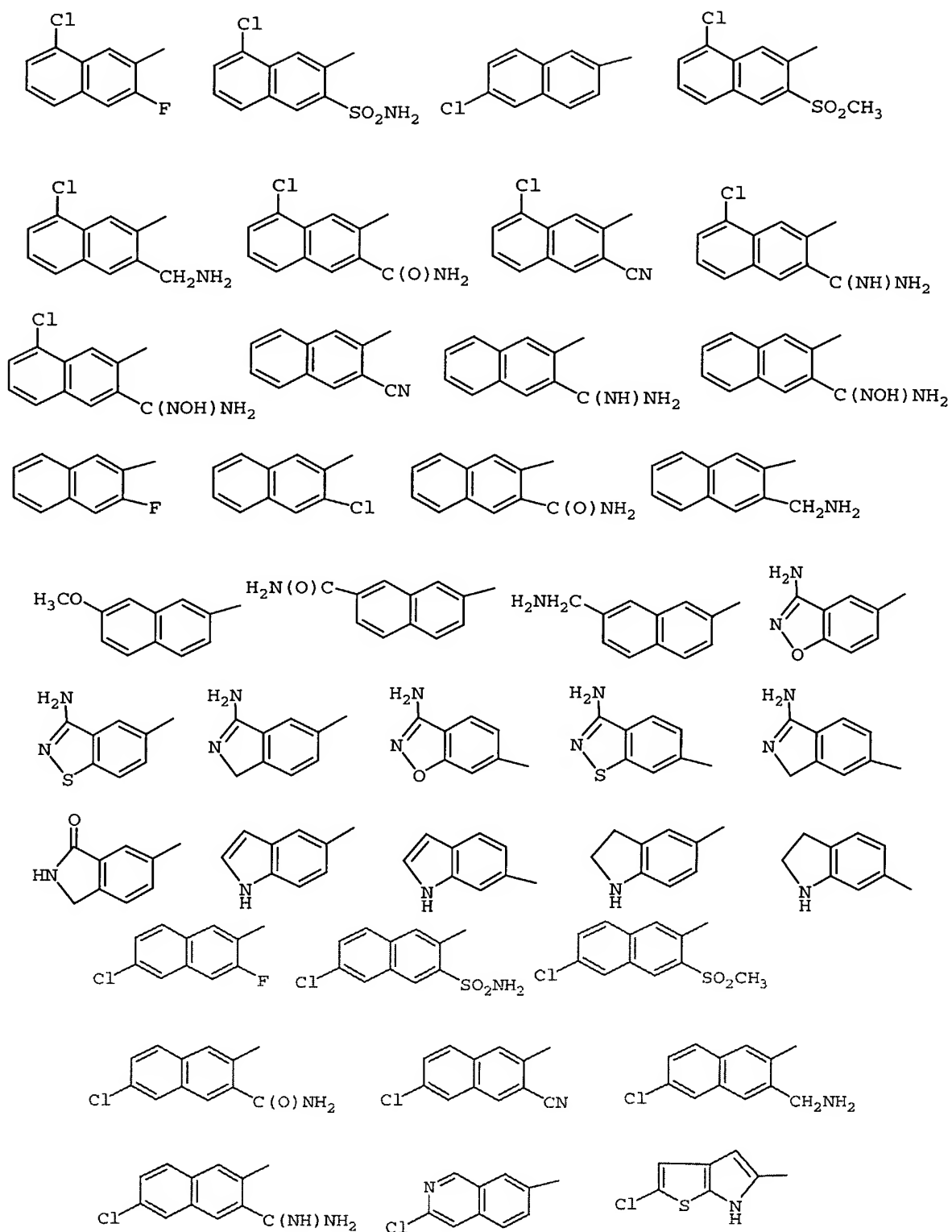
G is selected from the group:

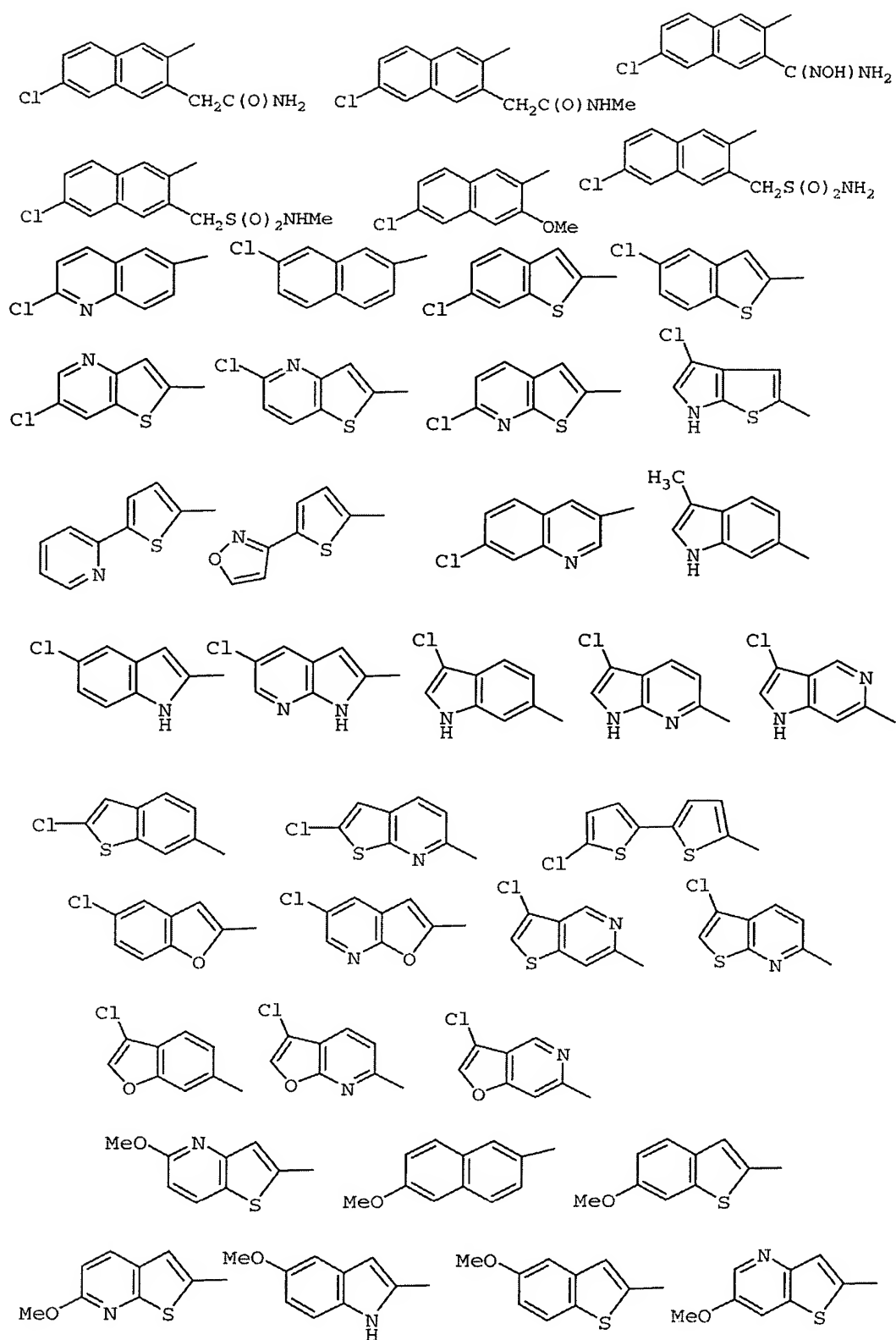
- 2-amido-4-methoxy-phenyl; 2-amido-phenyl; 2-aminomethyl-3-fluoro-phenyl;  
 2-aminomethyl-4-fluoro-phenyl; 2-aminomethyl-4-methoxy-phenyl; 2-aminomethyl-5-fluoro-phenyl;  
 10 2-aminomethyl-5-methoxy-phenyl; 2-aminomethyl-6-fluoro-phenyl; 2-aminomethyl-phenyl;  
 2-amino-pyrid-4-yl; 2-aminosulfonyl-4-methoxy-phenyl; 2-aminosulfonyl-phenyl;  
 2-methylsulfonyl-phenyl; 3-(N,N-dimethylamino)-4-chloro-phenyl; 3-(N,N-dimethylamino)-phenyl;  
 3-(N-methylamino)-4-chloro-phenyl; 3-(N-methylamino)-phenyl; 3-amido-phenyl;  
 3-amino-4-chloro-phenyl; 3-aminomethyl-phenyl; 3-amino-phenyl; 3-chloro-phenyl; 3,5-dichloro-  
 15 thien-2-yl; 4-(N,N-dimethylamino)-5-chloro-thien-2-yl; 4-(N-methylamino)-5-chloro-thien-2-yl;  
 4-amino-5-chloro-thien-2-yl; 4-chloro-phenyl; 4-methoxy-2-methylsulfonyl-phenyl;  
 4-methoxy-phenyl; 5-(N,N-dimethylamino)-4-chloro-thien-2-yl;

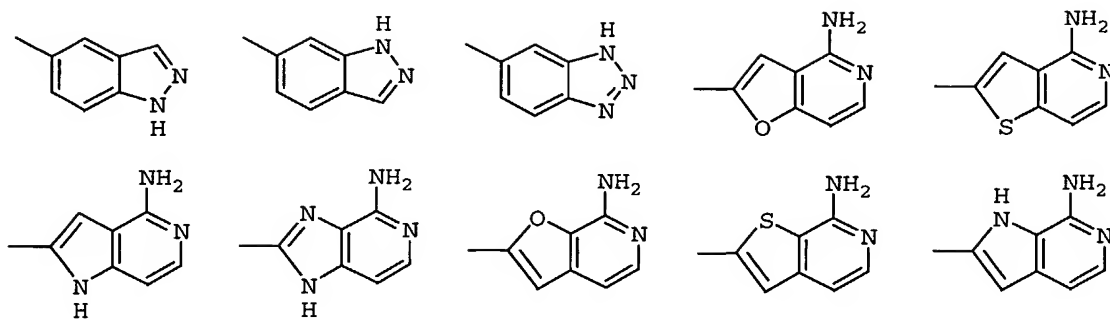


- 5-(N-methylamino)-4-chloro-thien-2-yl; 5-amino-4-chloro-thien-2-yl; 5-chloro-pyrid-2-yl;  
 5-chloro-thien-2-yl; 5-methoxy-thien-2-yl; 6-amino-5-chloro-pyrid-2-yl; 6-amino-pyrid-2-yl; 5-  
 chloro-pyrimidin-3-yl; 6-chloro-pyridazin-3-yl; 2-aminomethyl-4-chloro-phenyl;  
 2-aminosulfonyl-4-chloro-phenyl; 2-amido-4-chloro-phenyl; 4-chloro-2-methylsulfonyl-phenyl;  
 2-aminosulfonyl-4-fluoro-phenyl; 2-amido-4-fluoro-phenyl; 4-fluoro-2-methylsulfonyl-phenyl;  
 2-aminomethyl-4-bromo-phenyl; 2-aminosulfonyl-4-bromo-phenyl; 2-amido-4-bromo-phenyl;  
 4-bromo-2-methylsulfonyl-phenyl; 2-aminomethyl-4-methyl-phenyl;  
 2-aminosulfonyl-4-methyl-phenyl; 2-amido-4-methyl-phenyl; 2-methylsulfonyl-4-methyl-phenyl;  
 4-fluoro-pyrid-2-yl; 4-bromo-pyrid-2-yl; 4-methyl-pyrid-2-yl; 5-fluoro-thien-2-yl;  
 5-bromo-thien-2-yl; 5-methyl-thien-2-yl; 2-amido-4-methoxy-phenyl;









$G_1$  is absent or is selected from  $CH_2$ ,  $CH_2CH_2$ ,  $CH=CH$ ,  $CH_2O$ ,  $OCH_2$ ,  $NH$ ,  $CH_2NH$ ,  $NHCH_2$ ,  $CH_2C(O)$ ,  $C(O)CH_2$ ,  $C(O)NH$ ,  
 5  $NHC(O)$ ,  $NHC(O)NH$ ,  $C(O)NHS(O)_2$ ,  $NHCOCONH$ ,  $NHCOC(S)NH$ ,  
 $NHC(S)CONH$ ,  $CH_2S(O)_2$ ,  $S(O)_2(CH_2)$ ,  $SO_2NH$ , and  $NHSO_2$ ,  
 provided that  $G_1$  does not form a N-S,  $NCH_2N$ ,  $NCH_2O$ , or  
 $NCH_2S$  bond with either group to which it is attached;

10 A is selected from cyclohexyl, indoliny, piperidiny, phenyl, pyridyl, and pyrimidyl, and is substituted with 0-2  $R^4$ ;

X is selected from  $CH_2$ ,  $C(O)$ ,  $-S(O)_2-$ ,  $-NHC(O)-$ ,  $-C(O)NH-$ ,  
 15  $-CH_2NH-$ , O, and  $-CH_2O-$ ;

Y is selected from  $C(CH_3)_2$ ,  $C(CH_2CH_3)_2$ , cyclopropyl, cyclobutyl, cyclopentyl, cyclopentanonyl, cyclohexyl, cyclohexanonyl, pyrrolidiny, pyrrolidinonyl,  
 20 piperidiny, piperidinonyl, tetrahydrofuranyl, and tetrahydropyranyl, and, when Y is a ring, Y is substituted with 0-1  $R^4$ ;

$R^{1a}$ , at each occurrence, is selected from H,  $R^{1b}$ ,  
 25  $CH(CH_3)R^{1b}$ ,  $C(CH_3)_2R^{1b}$ , and  $CH_2R^{1b}$ , provided that  $R^{1a}$  forms other than an N-halo, N-S, or N-CN bond;

- $R^{1b}$  is selected from  $CH_3$ ,  $CH_2CH_3$ , F, Cl, Br, -CN,  $CF_3$ ,  $OR^2$ ,  $NR^2R^{2a}$ ,  $C(O)R^{2b}$ ,  $CO_2R^{2b}$ ,  $CO_2R^{2a}$ ,  $S(O)_pR^2$ ,  $C(O)NR^2R^{2a}$ ,  $SO_2NR^2R^{2a}$ ,  $NR^2SO_2R^2$ ,  $C_{3-6}$  carbocycle substituted with 0-2  $R^{4b}$ , and 5-6 membered aromatic heterocycle consisting of carbon atoms and from 1-4 heteroatoms selected from the group consisting of N, O, and  $S(O)_p$  and substituted with 0-2  $R^{4b}$ , provided that  $R^{1b}$  forms other than an O-O, N-halo, N-S, or N-CN bond;
- $R^2$ , at each occurrence, is selected from H,  $CH_3$ ,  $CH_2CH_3$ ,  $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ , phenyl substituted with 0-1  $R^{4b}$ , benzyl substituted with 0-1  $R^{4b}$ , and 5-6 membered aromatic heterocycle substituted with 0-1  $R^{4b}$  and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and  $S(O)_p$ ;
- $R^{2a}$ , at each occurrence, is selected from H,  $CH_3$ ,  $CH_2CH_3$ ,  $CH_2CH_2CH_3$ ,  $CH(CH_3)_2$ , cyclopropyl, benzyl, phenyl substituted with 0-1  $R^{4b}$ , and 5-6 membered aromatic heterocycle substituted with 0-1  $R^{4b}$  and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and  $S(O)_p$ ;
- alternatively,  $R^2$  and  $R^{2a}$ , together with the nitrogen atom to which they are attached, combine to form a 3-6 membered saturated, partially saturated or unsaturated ring substituted with 0-1  $R^{4b}$  and consisting of: 0-1 additional heteroatoms selected from the group consisting of N, O, and  $S(O)_p$ ;
- $R^{2b}$ , at each occurrence, is selected from OH,  $OCH_3$ ,  $OCH_2CH_3$ ,  $OCH_2CH_2CH_3$ ,  $OCH(CH_3)_2$ ,  $C_{1-5}$  alkyl substituted with 0-3  $R^{4b}$ , benzyl,  $C_{3-6}$  carbocycle substituted with 0-2  $R^{4b}$ , and 4-6 membered aromatic heterocycle substituted with

0-1 R<sup>4b</sup> and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>;

5 R<sup>2c</sup>, at each occurrence, is selected from OH, OCH<sub>3</sub>, OCH<sub>2</sub>CH<sub>3</sub>, OCH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, OCH(CH<sub>3</sub>)<sub>2</sub>, CH<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH(CH<sub>3</sub>)<sub>2</sub>, benzyl, phenyl substituted with 0-1 R<sup>4b</sup>, and 5-6 membered aromatic heterocycle substituted with 0-1 R<sup>4b</sup> and consisting of carbon atoms and from 1-4  
10 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>;

R<sup>2d</sup>, at each occurrence, is selected from H, R<sup>4c</sup>, C<sub>1-4</sub> alkyl substituted with 0-2 R<sup>4c</sup>, C<sub>3-6</sub> carbocycle substituted  
15 with 0-2 R<sup>4c</sup>, -(CH<sub>2</sub>)-C<sub>3-6</sub> carbocycle substituted with 0-2 R<sup>4c</sup>, 5-6 membered heterocycle substituted with 0-2 R<sup>4c</sup> and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>, and -(CH<sub>2</sub>)-5-6 membered heterocycle  
20 substituted with 0-2 R<sup>4c</sup> and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>, provided that R<sup>2d</sup> forms other than a N-halo, N-C-halo, S(O)<sub>p</sub>-halo, O-halo, N-S, S-N, S(O)<sub>p</sub>-S(O)<sub>p</sub>, S-O, O-N, O-S, or O-O moiety;

25 R<sup>2e</sup>, at each occurrence, is selected from H, R<sup>4c</sup>, C<sub>1-4</sub> alkyl substituted with 0-2 R<sup>4c</sup>, C<sub>3-6</sub> carbocycle substituted with 0-2 R<sup>4c</sup>, -(CH<sub>2</sub>)-C<sub>3-6</sub> carbocycle substituted with 0-2 R<sup>4c</sup>, 5-6 membered heterocycle substituted with 0-2  
30 R<sup>4c</sup> and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>, and -(CH<sub>2</sub>)-5-6 membered heterocycle substituted with 0-2 R<sup>4c</sup> and consisting of: carbon atoms and 1-4 heteroatoms selected from the group

consisting of N, O, and S(O)<sub>p</sub>, provided that R<sup>2e</sup> forms other than a C(O)-halo or C(O)-S(O)<sub>p</sub> moiety;

- R<sup>4</sup>, at each occurrence, is selected from OH, OR<sup>2</sup>, CH<sub>2</sub>OR<sup>2</sup>,  
 5 (CH<sub>2</sub>)<sub>2</sub>OR<sup>2</sup>, F, Br, Cl, I, CH<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>,  
 CH(CH<sub>3</sub>)<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>, CH(CH<sub>3</sub>)CH<sub>2</sub>CH<sub>3</sub>,  
 C(CH<sub>3</sub>)<sub>3</sub>, NR<sup>2</sup>R<sup>2a</sup>, CH<sub>2</sub>NR<sup>2</sup>R<sup>2a</sup>, (CH<sub>2</sub>)<sub>2</sub>NR<sup>2</sup>R<sup>2a</sup>, CF<sub>3</sub>, and  
 CF<sub>2</sub>CF<sub>3</sub>;
- 10 R<sup>4a</sup> is selected from -(CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-5-6 membered carbocycle  
 substituted with 0-3 R<sup>4c</sup>, -(CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-5-6 membered  
 heterocycle substituted with 0-3 R<sup>4c</sup> and consisting of:  
 carbon atoms and 1-4 heteroatoms selected from the  
 group consisting of N, O, and S(O)<sub>p</sub>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>NR<sup>2d</sup>R<sup>2d</sup>,  
 15 (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>N(→O)R<sup>2d</sup>R<sup>2d</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>OR<sup>2d</sup>,  
 (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-C(O)NR<sup>2d</sup>R<sup>2d</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-NR<sup>2d</sup>C(O)R<sup>2e</sup>,  
 (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-C(O)R<sup>2e</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-NR<sup>2d</sup>C(O)NR<sup>2d</sup>R<sup>2d</sup>,  
 (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-NR<sup>2d</sup>C(O)OR<sup>2d</sup>, (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-NR<sup>2d</sup>SO<sub>2</sub>R<sup>2d</sup>, and  
 (CR<sup>3</sup>R<sup>3g</sup>)<sub>r</sub>-S(O)<sub>p</sub>R<sup>2d</sup>, provided that S(O)<sub>p</sub>R<sup>2d</sup> forms other  
 20 than S(O)<sub>2</sub>H or S(O)H;

- R<sup>4b</sup>, at each occurrence, is selected from H, =O, OR<sup>3</sup>,  
 CH<sub>2</sub>OR<sup>3</sup>, F, Cl, CH<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH(CH<sub>3</sub>)<sub>2</sub>, -CN,  
 NO<sub>2</sub>, NR<sup>3</sup>R<sup>3a</sup>, CH<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, C(O)R<sup>3</sup>, C(O)OR<sup>3c</sup>, NR<sup>3</sup>C(O)R<sup>3a</sup>,  
 25 C(O)NR<sup>3</sup>R<sup>3a</sup>, SO<sub>2</sub>NR<sup>3</sup>R<sup>3a</sup>, NR<sup>3</sup>SO<sub>2</sub>-C<sub>1-4</sub> alkyl, NR<sup>3</sup>SO<sub>2</sub>-phenyl,  
 S(O)<sub>p</sub>-C<sub>1-4</sub> alkyl, S(O)<sub>p</sub>-phenyl, and CF<sub>3</sub>;

- R<sup>4c</sup>, at each occurrence, is selected from =O, OR<sup>2</sup>, CH<sub>2</sub>OR<sup>2</sup>,  
 F, Br, Cl, CF<sub>3</sub>, CH<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH(CH<sub>3</sub>)<sub>2</sub>, C<sub>2-3</sub>  
 30 alkenyl, C<sub>2-3</sub> alkynyl, -CN, NO<sub>2</sub>, NR<sup>2</sup>R<sup>2a</sup>, CH<sub>2</sub>NR<sup>2</sup>R<sup>2a</sup>,  
 N(→O)R<sup>2</sup>R<sup>2a</sup>, CH<sub>2</sub>N(→O)R<sup>2</sup>R<sup>2a</sup>, C(O)R<sup>2c</sup>, CH<sub>2</sub>C(O)R<sup>2c</sup>,  
 NR<sup>2</sup>C(O)R<sup>2b</sup>, CH<sub>2</sub>NR<sup>2</sup>C(O)R<sup>2b</sup>, C(O)NR<sup>2</sup>R<sup>2a</sup>, CH<sub>2</sub>C(O)NR<sup>2</sup>R<sup>2a</sup>,

$\text{SO}_2\text{NR}^2\text{R}^{2a}$ ,  $\text{CH}_2\text{SO}_2\text{NR}^2\text{R}^{2a}$ ,  $\text{NR}^2\text{SO}_2\text{R}^{5a}$ ,  $\text{CH}_2\text{NR}^2\text{SO}_2\text{R}^{5a}$ ,  
 $\text{S(O)}_p\text{R}^{5a}$ ,  $\text{CH}_2\text{S(O)}_p\text{R}^{5a}$ ,  $\text{CF}_3$ ,  $\text{CF}_2\text{CF}_3$ ,  $\text{C}_{3-6}$  carbocycle  
substituted with 0-2  $\text{R}^{4b}$ ,  $(\text{CH}_2)\text{C}_{3-6}$  carbocycle  
substituted with 0-2  $\text{R}^{4b}$ , 5-6 membered heterocycle  
substituted with 0-2  $\text{R}^{4b}$  and consisting of carbon atoms  
and from 1-4 heteroatoms selected from the group  
consisting of N, O, and  $\text{S(O)}_p$ , and  $(\text{CH}_2)_{5-6}$  membered  
heterocycle substituted with 0-2  $\text{R}^{4b}$  and consisting of  
carbon atoms and from 1-4 heteroatoms selected from  
the group consisting of N, O, and  $\text{S(O)}_p$ ;

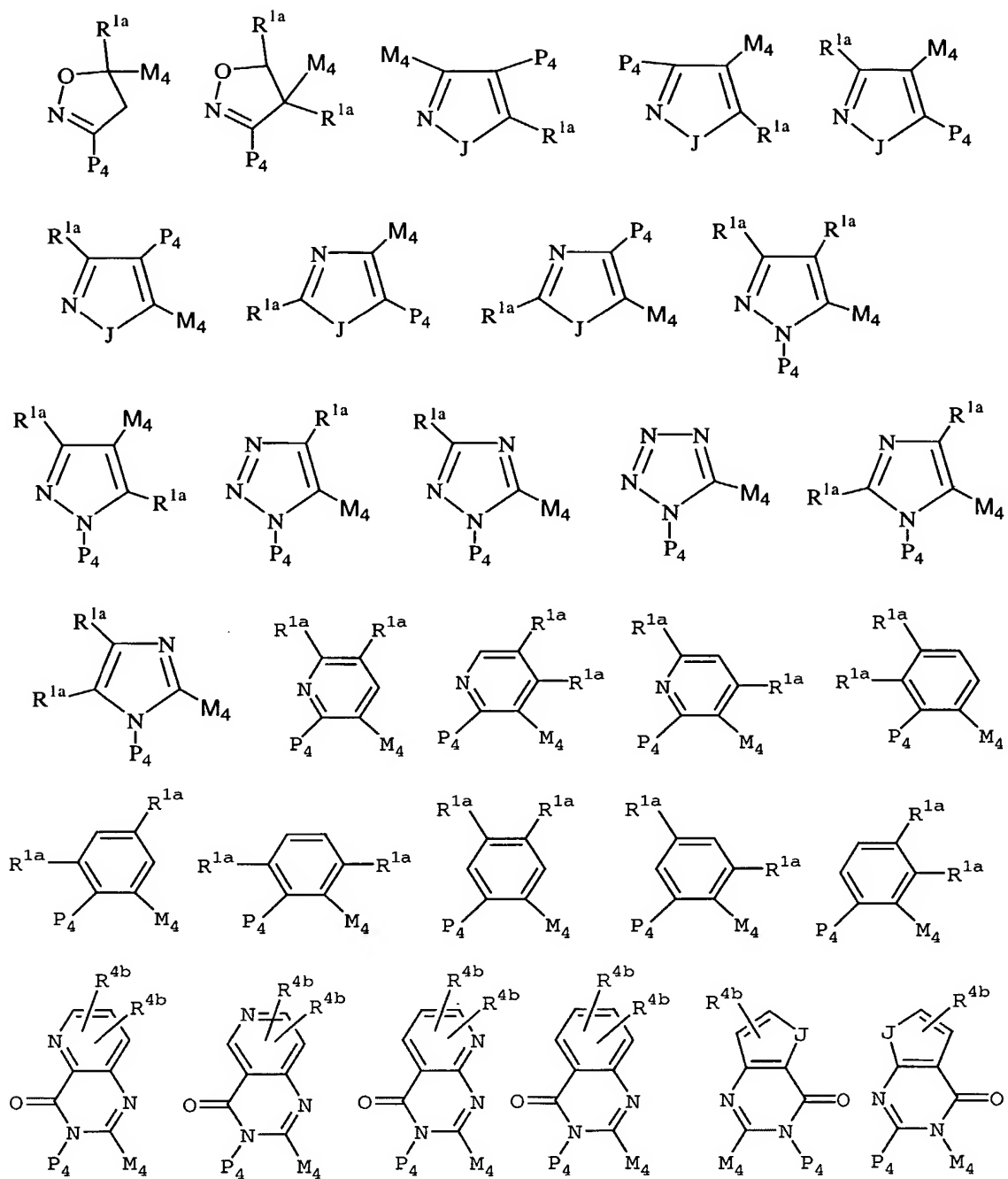
$\text{R}^5$ , at each occurrence, is selected from H, =O,  $\text{CH}_3$ ,  $\text{CH}_2\text{CH}_3$ ,  
 $\text{CH}_2\text{CH}_2\text{CH}_3$ ,  $\text{CH}(\text{CH}_3)_2$ ,  $\text{OR}^3$ ,  $\text{CH}_2\text{OR}^3$ , F, Cl, -CN,  $\text{NO}_2$ ,  
 $\text{NR}^3\text{R}^{3a}$ ,  $\text{CH}_2\text{NR}^3\text{R}^{3a}$ ,  $\text{C(O)}\text{R}^3$ ,  $\text{C(O)}\text{OR}^{3c}$ ,  $\text{NR}^3\text{C(O)}\text{R}^{3a}$ ,  
 $\text{C(O)}\text{NR}^3\text{R}^{3a}$ ,  $\text{SO}_2\text{NR}^3\text{R}^{3a}$ ,  $\text{NR}^3\text{SO}_2\text{-C}_{1-4}$  alkyl,  $\text{NR}^3\text{SO}_2\text{-phenyl}$ ,  
 $\text{S(O)}_p\text{-C}_{1-4}$  alkyl,  $\text{S(O)}_p\text{-phenyl}$ ,  $\text{CF}_3$ , phenyl substituted  
with 0-2  $\text{R}^6$ , naphthyl substituted with 0-2  $\text{R}^6$ , and  
benzyl substituted with 0-2  $\text{R}^6$ ; and,

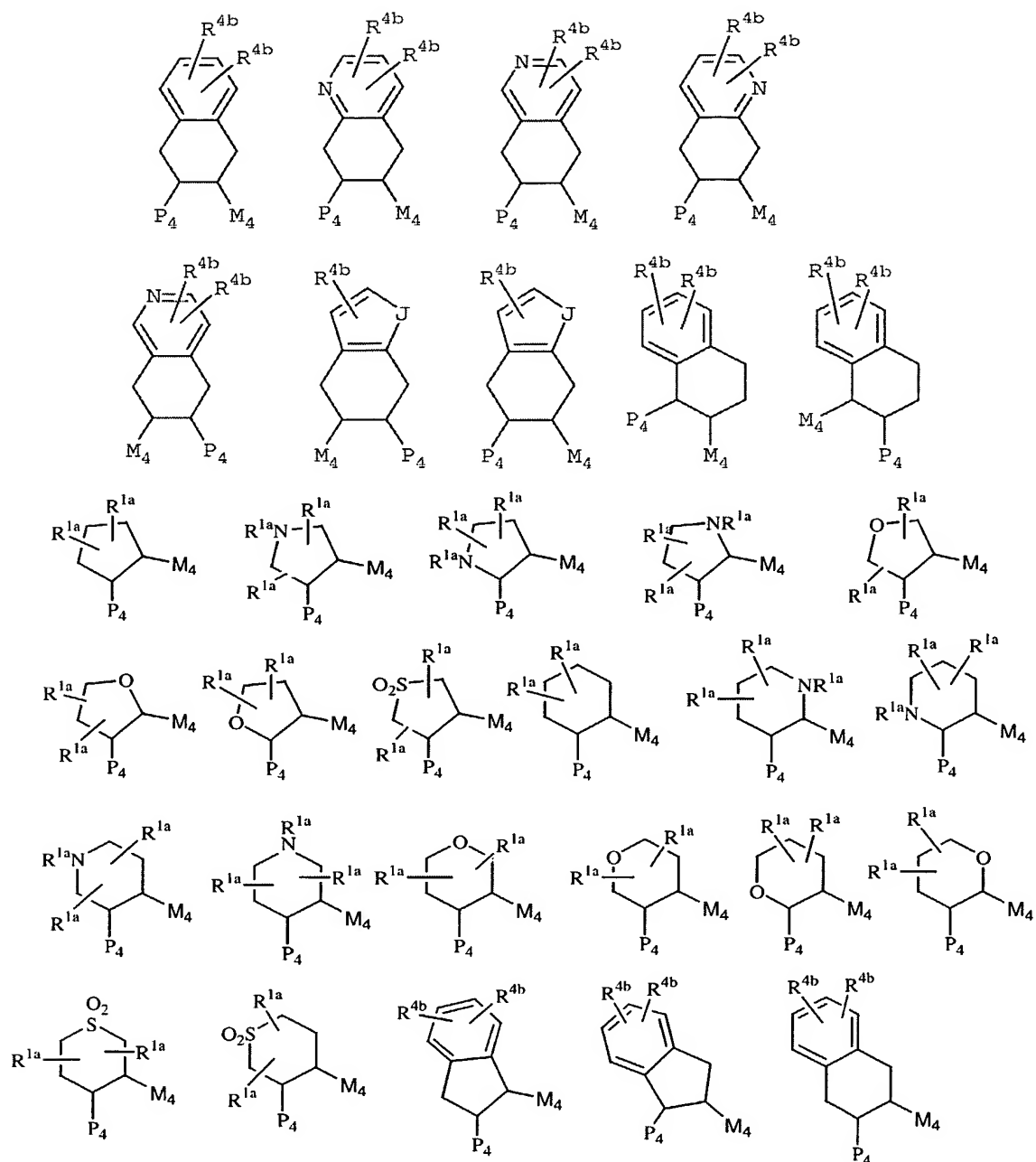
$\text{R}^6$ , at each occurrence, is selected from H, OH,  $\text{OR}^2$ , F, Cl,  
 $\text{CH}_3$ ,  $\text{CH}_2\text{CH}_3$ ,  $\text{CH}_2\text{CH}_2\text{CH}_3$ ,  $\text{CH}(\text{CH}_3)_2$ , -CN,  $\text{NO}_2$ ,  $\text{NR}^2\text{R}^{2a}$ ,  
 $\text{CH}_2\text{NR}^2\text{R}^{2a}$ ,  $\text{C(O)}\text{R}^{2b}$ ,  $\text{CH}_2\text{C(O)}\text{R}^{2b}$ ,  $\text{NR}^2\text{C(O)}\text{R}^{2b}$ , and  
 $\text{SO}_2\text{NR}^2\text{R}^{2a}$ .

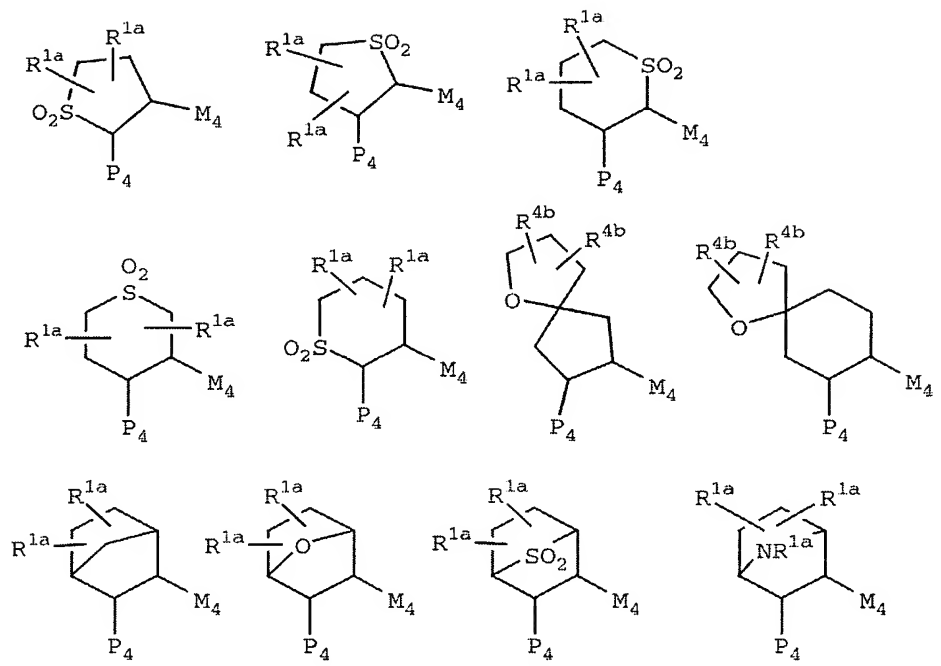
25

12. A compound according to Claim 11, wherein the  
compound is selected from:









J is selected from O, S, NH, and  $NR^{1a}$ ;

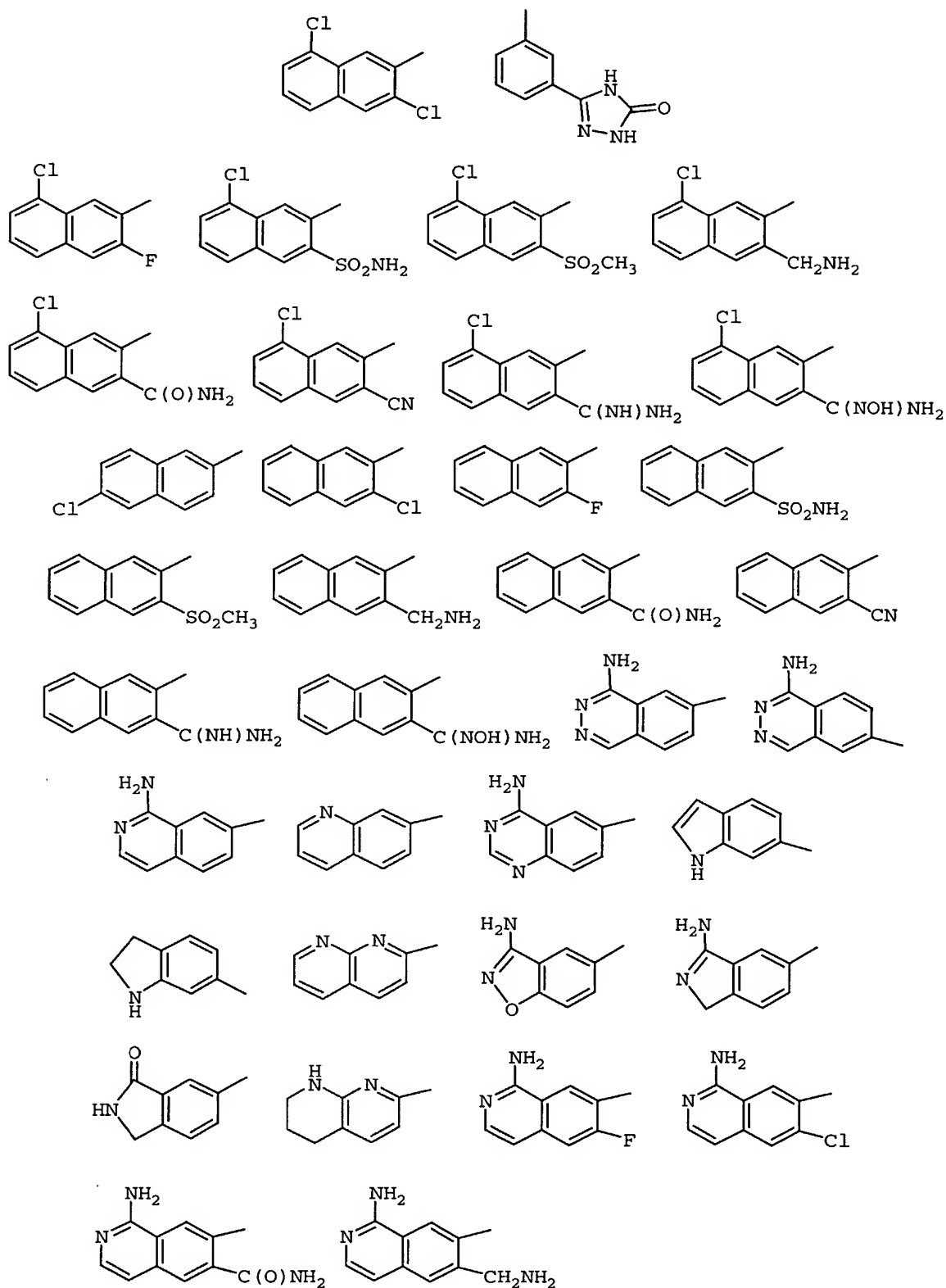
5  $P_4$  is  $-G_1-G$ ;

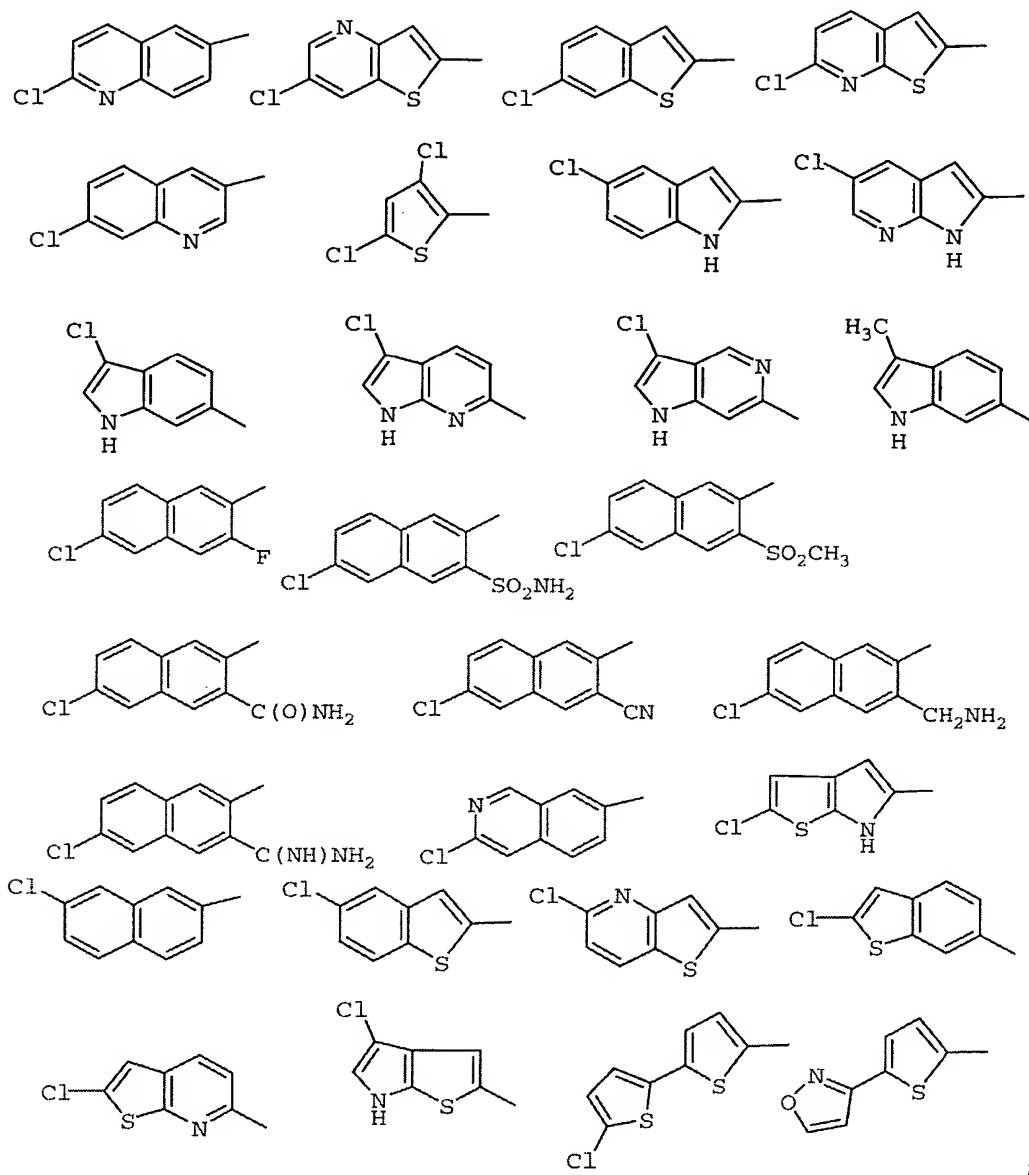
$M_4$  is  $-Z-A-B$ ;

G is selected from:

- 10 2-amido-4-methoxy-phenyl; 2-amido-phenyl;
- 2-aminomethyl-3-fluoro-phenyl;
- 2-aminomethyl-4-fluoro-phenyl;
- 2-aminomethyl-5-fluoro-phenyl;
- 2-aminomethyl-6-fluoro-phenyl; 2-aminomethyl-phenyl;
- 15 2-amino-pyrid-4-yl; 2-aminosulfonyl-4-methoxy-phenyl;
- 2-aminosulfonyl-phenyl; 3-amido-phenyl;
- 3-amino-4-chloro-phenyl; 3-aminomethyl-phenyl;
- 3-chloro-phenyl; 4-chloro-phenyl; 4-methoxy-phenyl;
- 5-chloro-pyrid-2-yl; 5-chloro-thien-2-yl;
- 20 6-amino-5-chloro-pyrid-2-yl; 6-amino-pyrid-2-yl; 5-chloro-pyrimidin-3-yl;
- 6-chloro-pyridazin-3-yl;
- 2-aminomethyl-4-chloro-phenyl;

2-aminosulfonyl-4-chloro-phenyl; 2-amido-4-chloro-phenyl;  
4-chloro-2-methylsulfonyl-phenyl;





5 G<sub>1</sub> is absent or is selected from CH=CH, CH<sub>2</sub>NH, NHCH<sub>2</sub>,  
CH<sub>2</sub>C(O), C(O)CH<sub>2</sub>, C(O)NH, NHC(O), NHC(O)NH, CH<sub>2</sub>S(O)<sub>2</sub>,  
S(O)<sub>2</sub>(CH<sub>2</sub>), SO<sub>2</sub>NH, and NHSO<sub>2</sub>, provided that G<sub>1</sub> does not  
form a N-S, NCH<sub>2</sub>N, NCH<sub>2</sub>O, or NCH<sub>2</sub>S bond with either  
group to which it is attached;

10

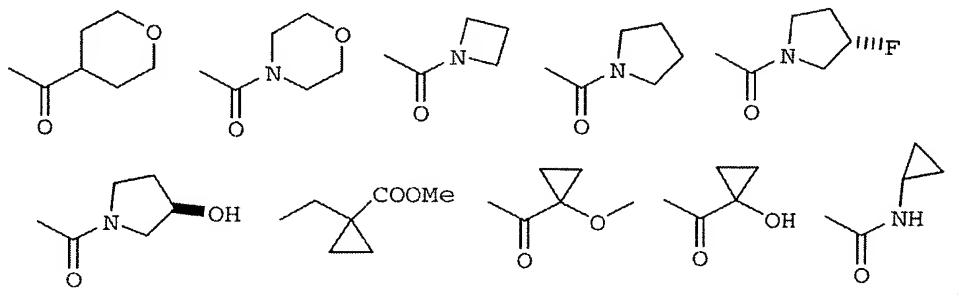
A is selected from the group: cyclohexyl, indolinyl, piperidinyl, phenyl, 2-pyridyl, 3-pyridyl, 2-pyrimidyl, 2-Cl-phenyl, 3-Cl-phenyl, 2-F-phenyl, 3-F-

phenyl, 2-methylphenyl, 2-aminophenyl, and 2-methoxyphenyl;

- Y is selected from C(CH<sub>3</sub>)<sub>2</sub>, C(CH<sub>2</sub>CH<sub>3</sub>)<sub>2</sub>, cyclopropyl,  
 5 cyclobutyl, cyclopentyl, 2-cyclopentanonyl, cyclohexyl, 2-cyclohexanonyl, pyrrolidinyl (attached to A and R<sup>4a</sup> at the 2-position), pyrrolidinyl (attached to A and R<sup>4a</sup> at the 3-position), 2-pyrrolidinonyl (attached to A and R<sup>4a</sup> at the 3-position), piperidinyl  
 10 (attached to A and R<sup>4a</sup> at the 4-position), 4-piperidinonyl (attached to A and R<sup>4a</sup> at the 3-position), tetrahydrofuranyl, and tetrahydropyranyl (attached to A and R<sup>4a</sup> at the 4-position);
- 15 R<sup>1a</sup>, at each occurrence, is selected from H, CH<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>F, CH<sub>2</sub>Cl, Br, CH<sub>2</sub>Br, -CN, CH<sub>2</sub>CN, CF<sub>3</sub>, CH<sub>2</sub>CF<sub>3</sub>, OCH<sub>3</sub>, CH<sub>2</sub>OH, C(CH<sub>3</sub>)<sub>2</sub>OH, CH<sub>2</sub>OCH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>, NH<sub>2</sub>, CH<sub>2</sub>NH<sub>2</sub>, NHCH<sub>3</sub>, CH<sub>2</sub>NHCH<sub>3</sub>, N(CH<sub>3</sub>)<sub>2</sub>, CH<sub>2</sub>N(CH<sub>3</sub>)<sub>2</sub>, CO<sub>2</sub>H, CH<sub>2</sub>CO<sub>2</sub>H, CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>H, COCH<sub>3</sub>, CO<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CO<sub>2</sub>CH<sub>3</sub>, SCH<sub>3</sub>,  
 20 CH<sub>2</sub>SCH<sub>3</sub>, S(O)CH<sub>3</sub>, CH<sub>2</sub>S(O)CH<sub>3</sub>, S(O)<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>S(O)<sub>2</sub>CH<sub>3</sub>, C(O)NH<sub>2</sub>, CH<sub>2</sub>C(O)NH<sub>2</sub>, SO<sub>2</sub>NH<sub>2</sub>, CH<sub>2</sub>SO<sub>2</sub>NH<sub>2</sub>, NHSO<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>NHSO<sub>2</sub>CH<sub>3</sub>, COCH<sub>2</sub>C(CH<sub>3</sub>)<sub>3</sub>, COCH<sub>2</sub>OH, COCH<sub>2</sub>OCH<sub>3</sub>, COC(CH<sub>3</sub>)<sub>2</sub>OH, COC(CH<sub>3</sub>)<sub>2</sub>CH<sub>2</sub>OH, COC(CH<sub>3</sub>)<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>, C(O)OCH<sub>2</sub>CH<sub>2</sub>OCH<sub>3</sub>, COCF<sub>3</sub>, CO<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CO<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>,  
 25 CO<sub>2</sub>C(CH<sub>3</sub>)<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CONH(CH<sub>3</sub>), CONH(CH<sub>2</sub>CH<sub>3</sub>), CONHC(CH<sub>3</sub>)<sub>3</sub>, CON(CH<sub>3</sub>)<sub>2</sub>, CON(CH<sub>3</sub>)(CH<sub>2</sub>CH<sub>3</sub>), CON(CH<sub>3</sub>)CH(CH<sub>3</sub>)<sub>2</sub>, CH<sub>2</sub>CON(CH<sub>3</sub>)<sub>2</sub>, C(O)-phenyl, C(O)-cyclopropyl, C(O)-cyclobutyl, C(O)-cyclopentyl, pyridin-2-yl, pyridin-3-yl, pyridin-4-yl, pyridin-2-yl-N-oxide, pyridin-3-yl-N-oxide, pyridin-4-yl-N-oxide, imidazol-1-yl, CH<sub>2</sub>-imidazol-1-yl, 4-methyl-oxazol-2-yl, 4-N,N-dimethylaminomethyl-oxazol-2-yl, 1,2,3,4-tetrazol-1-yl, 1,2,3,4-tetrazol-5-yl, CH<sub>2</sub>-

1,2,3,4-tetrazol-1-yl, and CH<sub>2</sub>-1,2,3,4-tetrazol-5-yl, provided that R<sup>1a</sup> forms other than an N-halo, N-S, or N-CN bond;

5 alternatively, R<sup>1a</sup> is selected from:



R<sup>2</sup>, at each occurrence, is selected from H, CH<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH(CH<sub>3</sub>)<sub>2</sub>, phenyl substituted with 0-1 R<sup>4b</sup>, benzyl substituted with 0-1 R<sup>4b</sup>, and 5 membered aromatic heterocycle substituted with 0-1 R<sup>4b</sup> and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>;

15 R<sup>2a</sup>, at each occurrence, is selected from H, CH<sub>3</sub>, and CH<sub>2</sub>CH<sub>3</sub>;

alternatively, R<sup>2</sup> and R<sup>2a</sup>, together with the nitrogen atom to which they are attached, combine to form a 3-6 membered saturated, partially saturated or unsaturated ring substituted with 0-1 R<sup>4b</sup> and consisting of: 0-1 additional heteroatoms selected from the group consisting of N, O, and S(O)<sub>p</sub>;

25 R<sup>2b</sup>, at each occurrence, is selected from OH, OCH<sub>3</sub>, OCH<sub>2</sub>CH<sub>3</sub>, CH<sub>3</sub>, and CH<sub>2</sub>CH<sub>3</sub>;

R<sup>2c</sup>, at each occurrence, is selected from OH, OCH<sub>3</sub>, OCH<sub>2</sub>CH<sub>3</sub>, CH<sub>3</sub>, and CH<sub>2</sub>CH<sub>3</sub>;

$R^{2d}$ , at each occurrence, is selected from H,  $R^{4c}$ ,  $C_{1-4}$  alkyl substituted with 0-2  $R^{4c}$ ,  $C_{3-6}$  cycloalkyl substituted with 0-2  $R^{4c}$ , phenyl substituted with 0-2  $R^{4c}$ , and 5-6  
 5 membered aromatic heterocycle substituted with 0-2  $R^{4c}$  consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and  $S(O)_p$ , provided that  $R^{2d}$  forms other than a N-halo, N-C-halo,  $S(O)_p$ -halo, O-halo, N-S, S-N,  $S(O)_p$ - $S(O)_p$ , S-O, O-N, O-S, or O-O moiety;  
 10

$R^{2e}$ , at each occurrence, is selected from H,  $R^{4c}$ ,  $C_{1-4}$  alkyl substituted with 0-2  $R^{4c}$ ,  $C_{3-6}$  cycloalkyl substituted with 0-2  $R^{4c}$ , phenyl substituted with 0-2  $R^{4c}$ , and 5-6  
 15 membered aromatic heterocycle substituted with 0-2  $R^{4c}$  and consisting of: carbon atoms and 1-4 heteroatoms selected from the group consisting of N, O, and  $S(O)_p$ , provided that  $R^{2e}$  forms other than a  $C(O)$ -halo or  $C(O)$ - $S(O)_p$  moiety;  
 20

$R^{4a}$  is selected from  $-(CH_2)_r$ -5-6 membered carbocycle substituted with 0-3  $R^{4c}$ ,  $-(CH_2)_r$ -5-6 membered heterocycle substituted with 0-3  $R^{4c}$  and consisting of: carbon atoms and 1-4 heteroatoms selected from the  
 25 group consisting of N, O, and  $S(O)_p$ ,  $(CH_2)_rNR^{2d}R^{2d}$ ,  $(CH_2)_rN(\rightarrow O)R^{2d}R^{2d}$ ,  $(CH_2)_rOR^{2d}$ ,  $(CH_2)_rC(O)NR^{2d}R^{2d}$ ,  $(CH_2)_r-NR^{2d}C(O)R^{2e}$ ,  $(CH_2)_r-C(O)R^{2e}$ ,  $(CH_2)_r-NR^{2d}C(O)NR^{2d}R^{2d}$ ,  $(CH_2)_r-NR^{2d}C(O)OR^{2d}$ ,  $(CH_2)_r-NR^{2d}SO_2R^{2d}$ , and  $(CH_2)_r-S(O)_pR^{2d}$ , provided that  
 30  $S(O)_pR^{2d}$  forms other than  $S(O)_2H$  or  $S(O)H$ ;

$R^{4b}$ , at each occurrence, is selected from H, =O,  $OR^3$ ,  $CH_2OR^3$ , F, Cl,  $CH_3$ ,  $CH_2CH_3$ ,  $NR^3R^{3a}$ ,  $CH_2NR^3R^{3a}$ ,  $C(O)R^3$ ,



$C(O)OR^{3c}$ ,  $NR^3C(O)R^{3a}$ ,  $C(O)NR^3R^{3a}$ ,  $SO_2NR^3R^{3a}$ ,  
 $NR^3SO_2$ -phenyl,  $S(O)_2CH_3$ ,  $S(O)_2$ -phenyl, and  $CF_3$ ;

$R^{4c}$ , at each occurrence, is selected from =O, OH,  $OCH_3$ ,  
 5  $OCH_2CH_3$ ,  $OCH_2CH_2CH_3$ ,  $OCH(CH_3)_2$ ,  $CH_3$ ,  $CH_2CH_3$ ,  $CH_2CH_2CH_3$ ,  
 $CH(CH_3)_2$ ,  $C_{2-3}$  alkenyl,  $C_{2-3}$  alkynyl,  $CH_2OH$ ,  $CH_2OCH_3$ ,  
 $CH_2OCH_2CH_3$ ,  $CH_2OCH_2CH_2CH_3$ ,  $CH_2OCH(CH_3)_2$ , F, Br, Cl,  $CF_3$ ,  
 $NR^2R^{2a}$ ,  $CH_2NR^2R^{2a}$ ,  $N(\rightarrow O)R^2R^{2a}$ ,  $CH_2N(\rightarrow O)R^2R^{2a}$ ,  $C(O)R^{2c}$ ,  
 $CH_2C(O)R^{2c}$ ,  $NR^2C(O)R^{2b}$ ,  $CH_2NR^2C(O)R^{2b}$ ,  $C(O)NR^2R^{2a}$ ,  
 10  $CH_2C(O)NR^2R^{2a}$ ,  $SO_2NR^2R^{2a}$ ,  $CH_2SO_2NR^2R^{2a}$ ,  $NR^2SO_2R^{5a}$ ,  
 $CH_2NR^2SO_2R^{5a}$ ,  $S(O)_pR^{5a}$ ,  $CH_2S(O)_pR^{5a}$ ,  $CF_3$ , cyclopropyl  
 substituted with 0-1  $R^{4b}$ , cyclobutyl substituted with  
 0-1  $R^{4b}$ , cyclopentyl substituted with 0-1  $R^{4b}$ , phenyl  
 substituted with 0-1  $R^{4b}$ ,  $-CH_2$ -cyclopropyl substituted  
 15 with 0-1  $R^{4b}$ ,  $-CH_2$ -cyclobutyl substituted with 0-1  $R^{4b}$ ,  
 $-CH_2$ -cyclopentyl substituted with 0-1  $R^{4b}$ , benzyl  
 substituted with 0-2  $R^{4b}$ , 5-6 membered aromatic  
 heterocycle substituted with 0-2  $R^{4b}$  and consisting of  
 carbon atoms and from 1-4 heteroatoms selected from  
 20 the group consisting of N, O, and  $S(O)_p$ , and  $(CH_2)_{5-6}$   
 membered aromatic heterocycle substituted with 0-2  $R^{4b}$   
 and consisting of carbon atoms and from 1-4  
 heteroatoms selected from the group consisting of N,  
 O, and  $S(O)_p$ ;

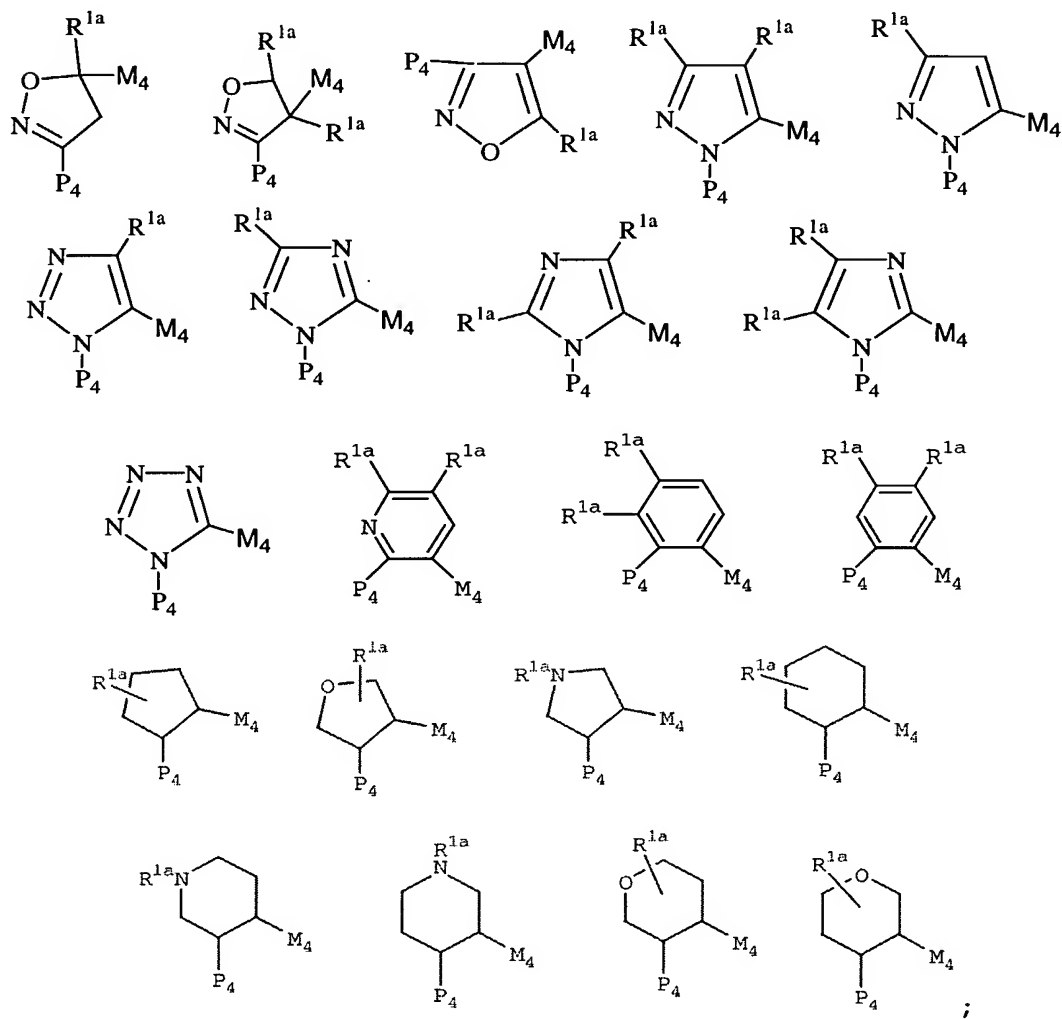
25

$R^5$ , at each occurrence, is selected from H, =O,  $CH_3$ ,  $CH_2CH_3$ ,  
 $OR^3$ ,  $CH_2OR^3$ , F, Cl,  $NR^3R^{3a}$ ,  $CH_2NR^3R^{3a}$ ,  $C(O)R^3$ ,  $C(O)OR^{3c}$ ,  
 $NR^3C(O)R^{3a}$ ,  $C(O)NR^3R^{3a}$ ,  $SO_2NR^3R^{3a}$ ,  $NR^3SO_2$ - $C_{1-4}$  alkyl,  
 $NR^3SO_2$ -phenyl,  $S(O)_2-CH_3$ ,  $S(O)_2$ -phenyl,  $CF_3$ , phenyl  
 30 substituted with 0-2  $R^6$ , naphthyl substituted with 0-2  
 $R^6$ , and benzyl substituted with 0-2  $R^6$ ; and,

$R^6$ , at each occurrence, is selected from H, OH,  $OR^2$ , F, Cl,  $CH_3$ ,  $CH_2CH_3$ ,  $NR^2R^{2a}$ ,  $CH_2NR^2R^{2a}$ ,  $C(O)R^{2b}$ ,  $CH_2C(O)R^{2b}$ ,  $NR^2C(O)R^{2b}$ , and  $SO_2NR^2R^{2a}$ .

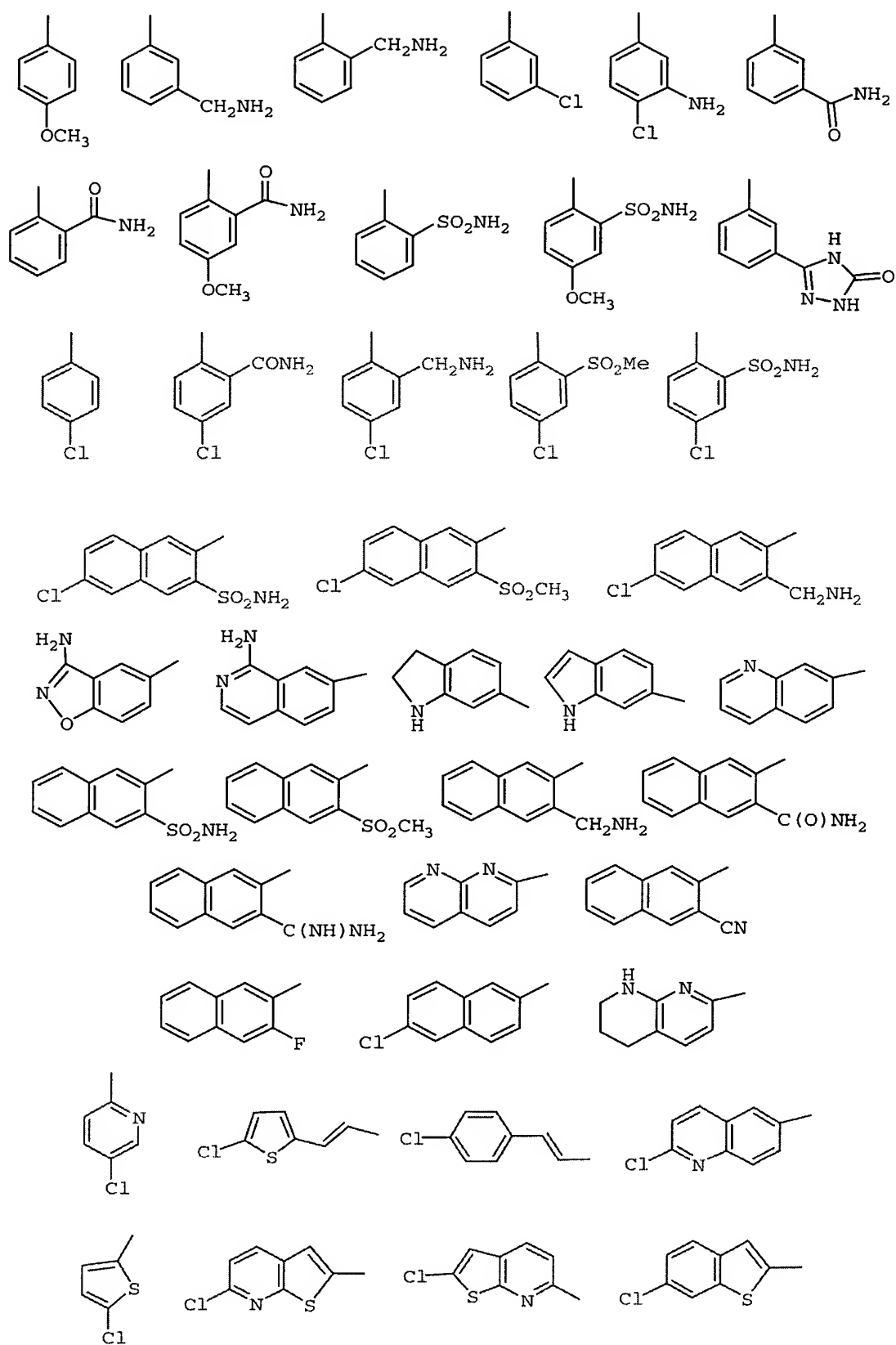
5

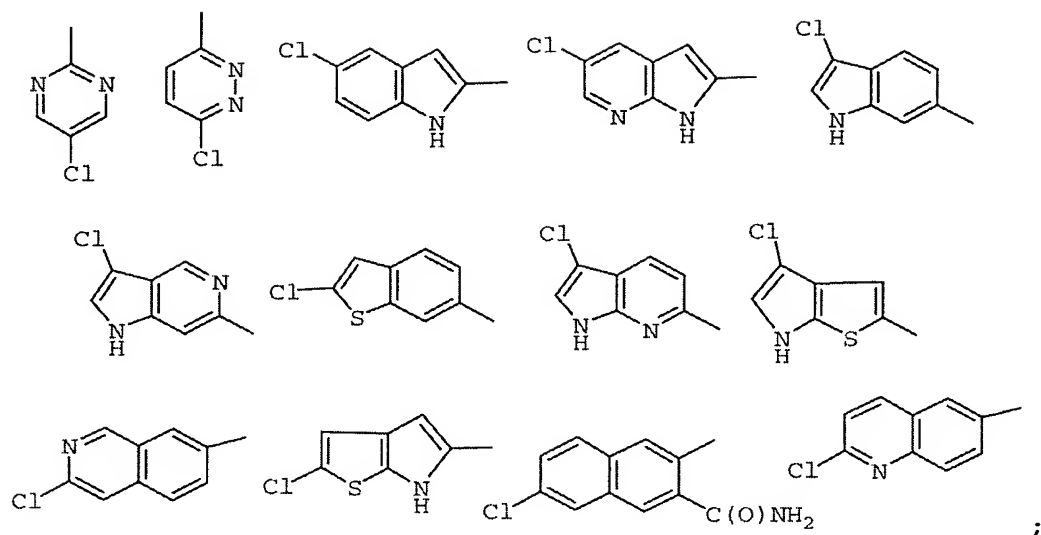
13. A compound according to Claim 12, wherein the compound is selected from:



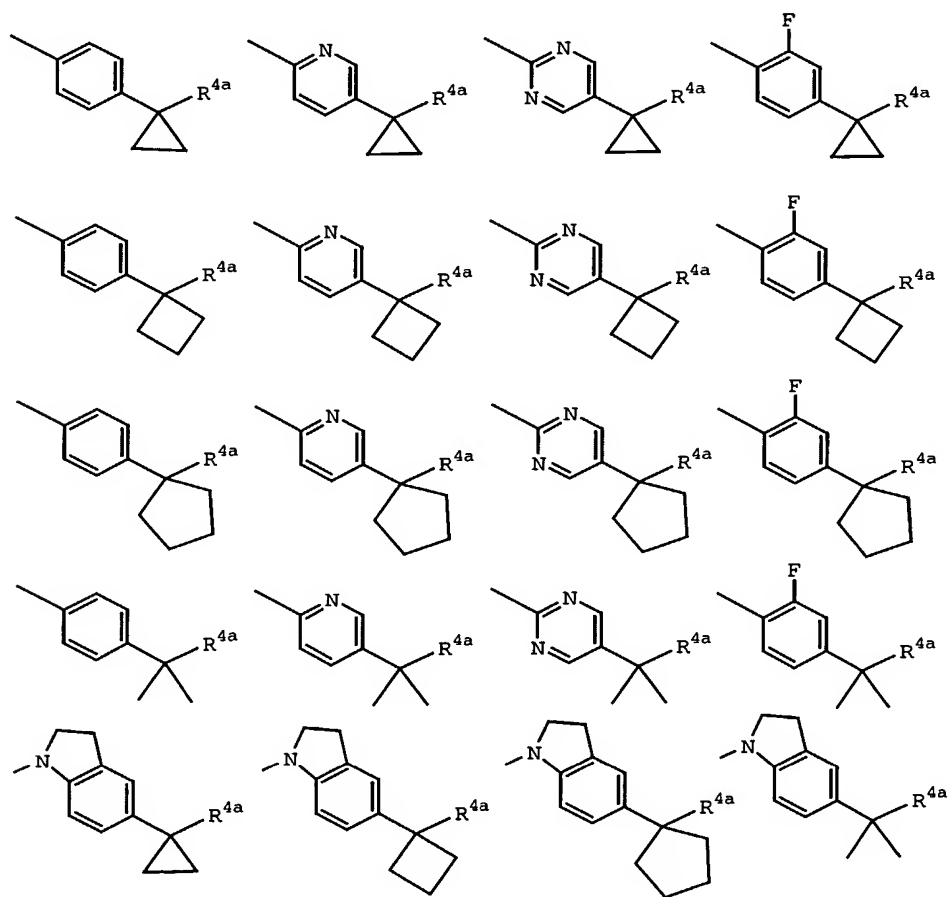
10

$-G_1-G$  is selected from:





A-B is selected from:



5

$\text{R}^{2d}$ , at each occurrence, is selected from H,  $\text{C}_{1-4}$  alkyl substituted with 0-1  $\text{R}^{4c}$ ,  $\text{C}_{3-6}$  cycloalkyl substituted

with 0-2  $R^{4c}$ , phenyl substituted with 0-2  $R^{4c}$ , and a  
 5-6 membered aromatic heterocycle consisting of:  
 carbon atoms and 1-4 heteroatoms selected from the  
 group consisting of N, O, and  $S(O)_p$ , provided that  $R^{2d}$   
 5 forms other than a N-halo, N-C-halo,  $S(O)_p$ -halo, O-  
 halo, N-S, S-N,  $S(O)_p$ - $S(O)_p$ , S-O, O-N, O-S, or O-O  
 moiety;

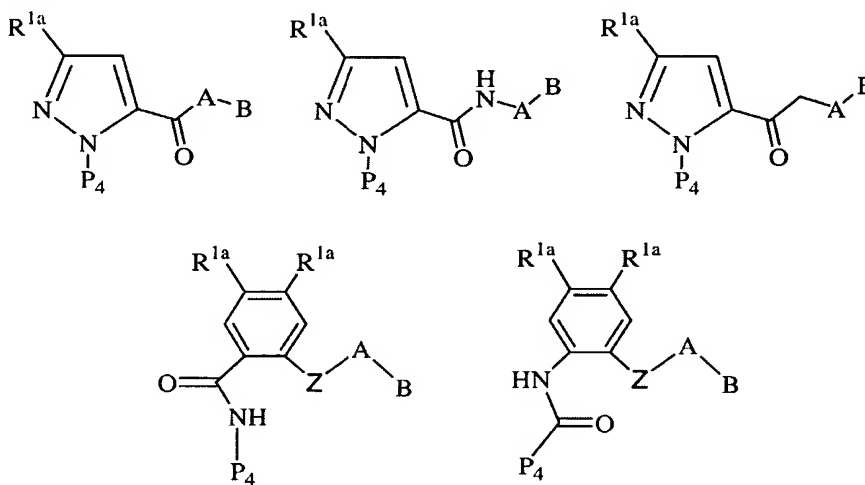
$R^{2e}$ , at each occurrence, is selected from H,  $C_{1-4}$  alkyl  
 10 substituted with 0-1  $R^{4c}$ ,  $C_{3-6}$  cycloalkyl substituted  
 with 0-2  $R^{4c}$ , phenyl, substituted with 0-2  $R^{4c}$ , and 5-6  
 membered aromatic heterocycle consisting of: carbon  
 atoms and 1-4 heteroatoms selected from the group  
 consisting of N, O, and  $S(O)_p$ , provided that  $R^{2e}$  forms  
 15 other than a C(O)-halo or C(O)- $S(O)_p$  moiety;

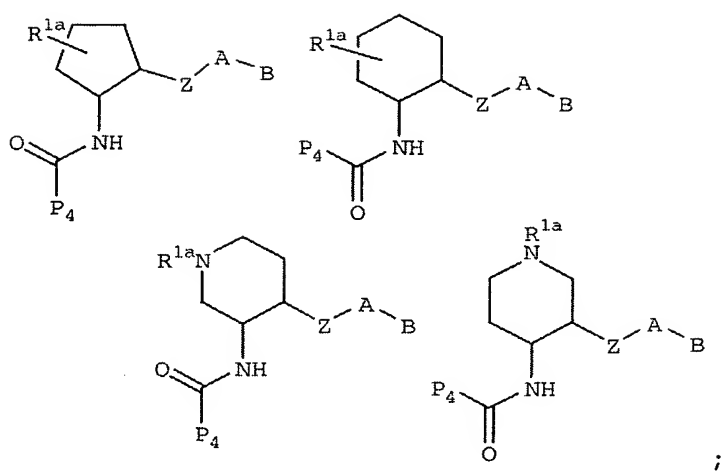
$R^{4a}$  is selected from  $NR^{2d}R^{2d}$ ,  $CH_2NR^{2d}R^{2d}$ ,  $CH_2CH_2NR^{2d}R^{2d}$ ,  
 $N(\rightarrow O)R^{2d}R^{2d}$ ,  $CH_2N(\rightarrow O)R^{2d}R^{2d}$ ,  $CH_2OR^{2d}$ ,  $C(O)R^{2e}$ ,  
 $C(O)NR^{2d}R^{2d}$ ,  $CH_2C(O)NR^{2d}R^{2d}$ ,  $NR^{2d}C(O)R^{2e}$ ,  $CH_2NR^{2d}C(O)R^{2e}$ ,  
 20  $NR^{2d}C(O)NR^{2d}R^{2d}$ ,  $CH_2NR^{2d}C(O)NR^{2d}R^{2d}$ ,  $NR^{2d}C(O)OR^{2d}$ ,  
 $CH_2NR^{2d}C(O)OR^{2d}$ ,  $NR^{2d}SO_2R^{2d}$ ,  $CH_2NR^{2d}SO_2R^{2d}$ ,  $S(O)_pR^{2d}$ ,  
 $CH_2S(O)_pR^{2d}$ , 5-6 membered carbocycle substituted with  
 0-2  $R^{4c}$ ,  $-(CH_2)$ -5-6 membered carbocycle substituted  
 with 0-2  $R^{4c}$ ,  $-(CH_2)_2$ -5-6 membered carbocycle  
 25 substituted with 0-2  $R^{4c}$ , 5-6 membered heterocycle  
 substituted with 0-2  $R^{4c}$  and consisting of: carbon  
 atoms and 1-4 heteroatoms selected from the group  
 consisting of N, O, and  $S(O)_p$ ,  $-(CH_2)$ -5-6 membered  
 heterocycle substituted with 0-2  $R^{4c}$  and consisting of:  
 30 carbon atoms and 1-4 heteroatoms selected from the  
 group consisting of N, O, and  $S(O)_p$ , and  $-(CH_2)_2$ -5-6  
 membered heterocycle substituted with 0-2  $R^{4c}$  and  
 consisting of: carbon atoms and 1-4 heteroatoms

selected from the group consisting of N, O, and S(O)<sub>p</sub>  
provided that S(O)<sub>p</sub>R<sup>2d</sup> forms other than S(O)<sub>2</sub>H or  
S(O)H; and,

- 5 R<sup>4c</sup> is selected from =O, OH, OCH<sub>3</sub>, OCH<sub>2</sub>CH<sub>3</sub>, OCH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>,  
OCH(CH<sub>3</sub>)<sub>2</sub>, CH<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, CH(CH<sub>3</sub>)<sub>2</sub>, CH=CH<sub>2</sub>,  
CH≡CH, CH<sub>2</sub>OH, CH<sub>2</sub>OCH<sub>3</sub>, CH<sub>2</sub>OCH<sub>2</sub>CH<sub>3</sub>, CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>,  
CH<sub>2</sub>OCH(CH<sub>3</sub>)<sub>2</sub>, F, Br, Cl, CF<sub>3</sub>, NR<sup>2</sup>R<sup>2a</sup>, CH<sub>2</sub>NR<sup>2</sup>R<sup>2a</sup>,  
C(O)R<sup>2c</sup>, CH<sub>2</sub>C(O)R<sup>2c</sup>, NR<sup>2</sup>C(O)R<sup>2b</sup>, CH<sub>2</sub>NR<sup>2</sup>C(O)R<sup>2b</sup>,  
10 C(O)NR<sup>2</sup>R<sup>2a</sup>, CH<sub>2</sub>C(O)NR<sup>2</sup>R<sup>2a</sup>, SO<sub>2</sub>NR<sup>2</sup>R<sup>2a</sup>, CH<sub>2</sub>SO<sub>2</sub>NR<sup>2</sup>R<sup>2a</sup>,  
NR<sup>2</sup>SO<sub>2</sub>R<sup>5a</sup>, CH<sub>2</sub>NR<sup>2</sup>SO<sub>2</sub>R<sup>5a</sup>, S(O)<sub>p</sub>R<sup>5a</sup>, and CH<sub>2</sub>S(O)<sub>p</sub>R<sup>5a</sup>.

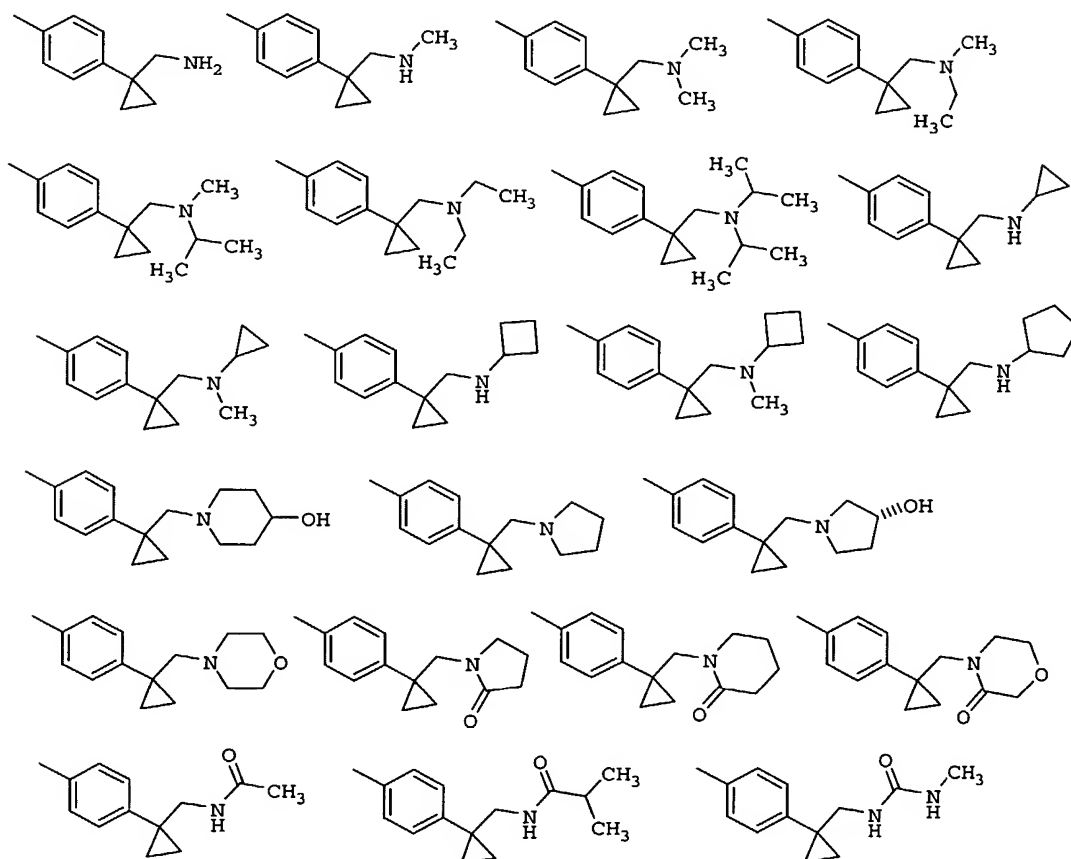
14. A compound according to Claim 13, wherein the compound  
15 is selected from:

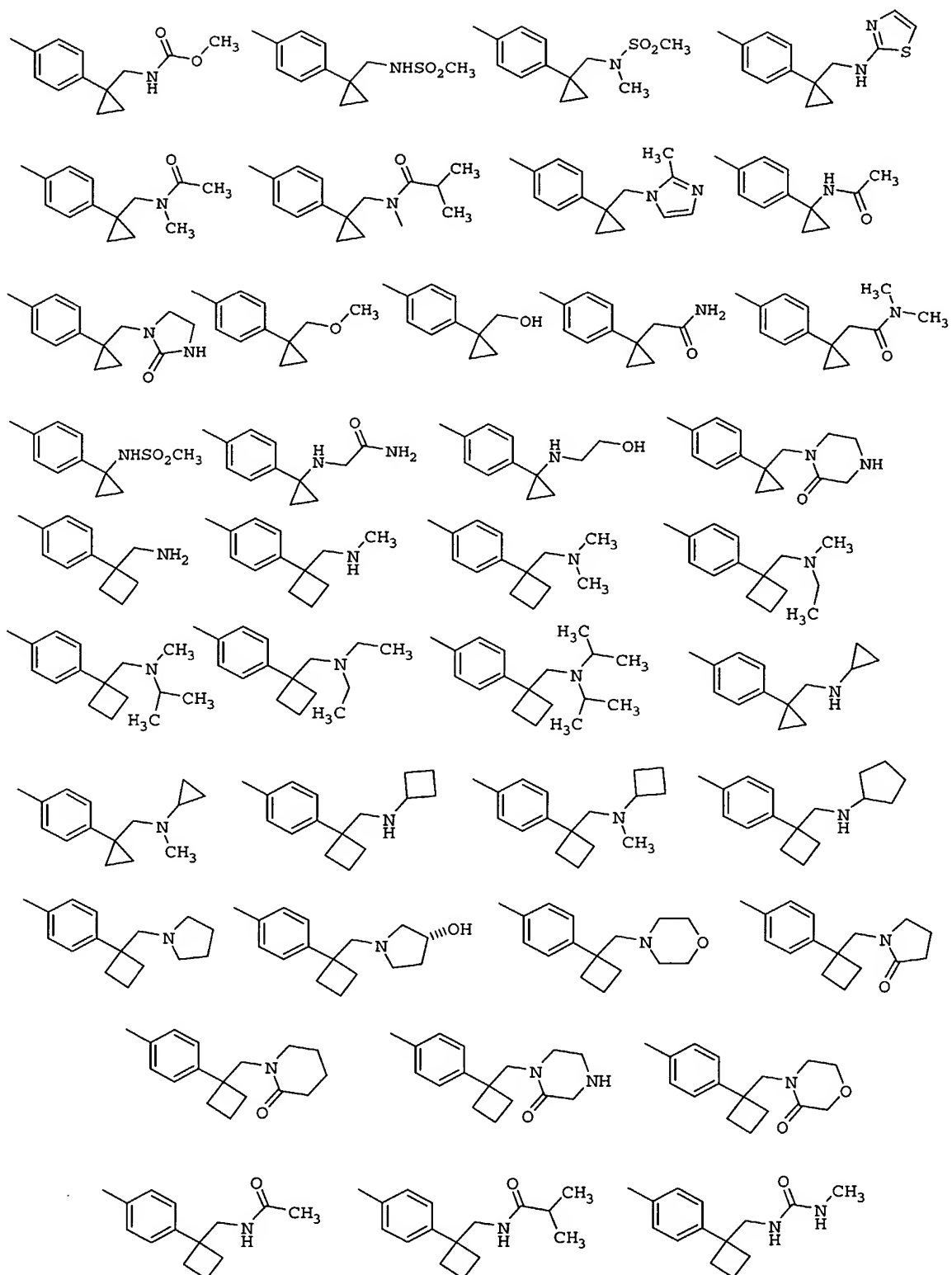




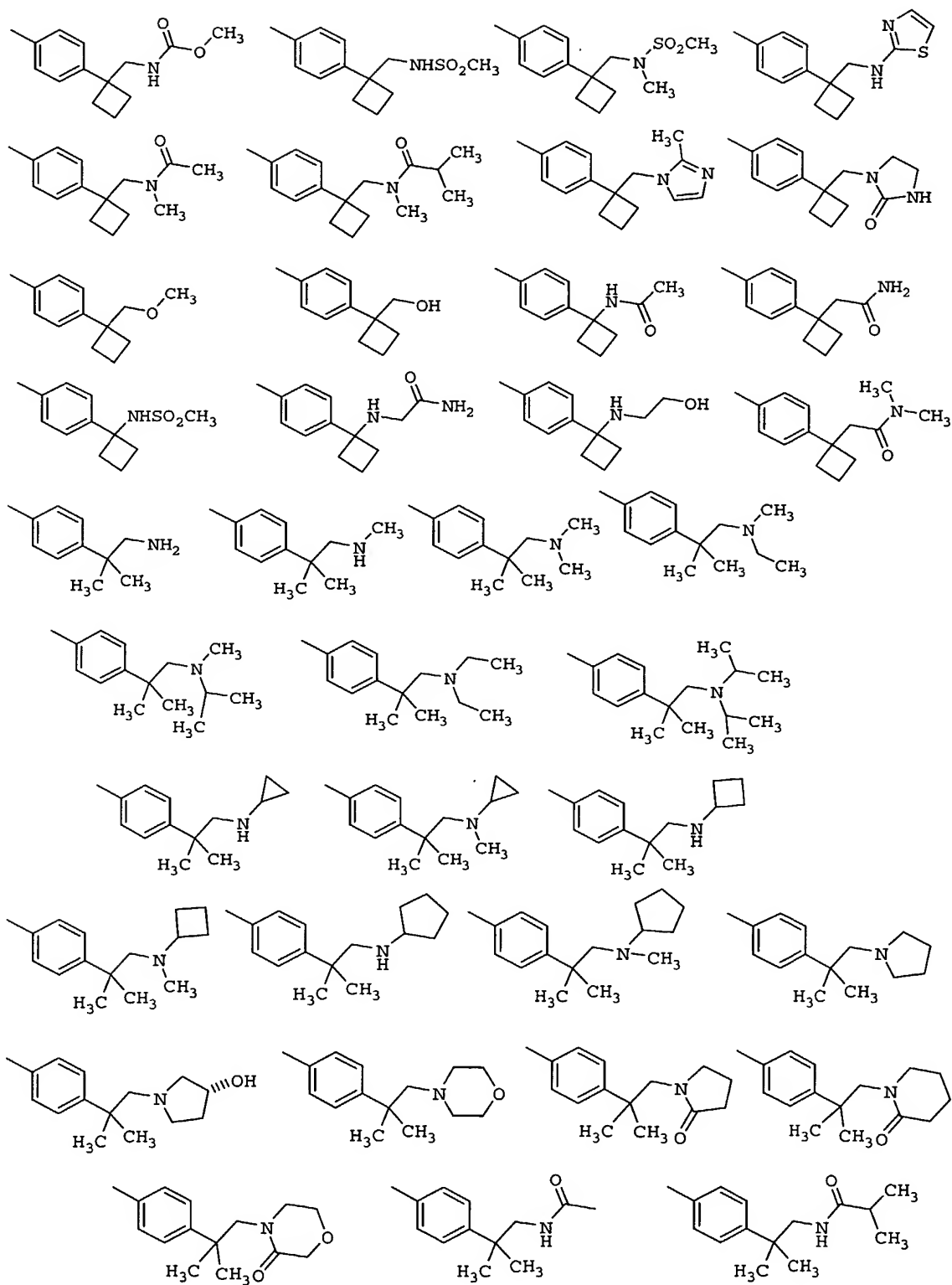
Z is selected from a  $\text{NHCH}_2$ ,  $\text{C(O)NH}$ ,  $\text{NHC(O)}$ , and  $\text{NHSO}_2$ ; and,

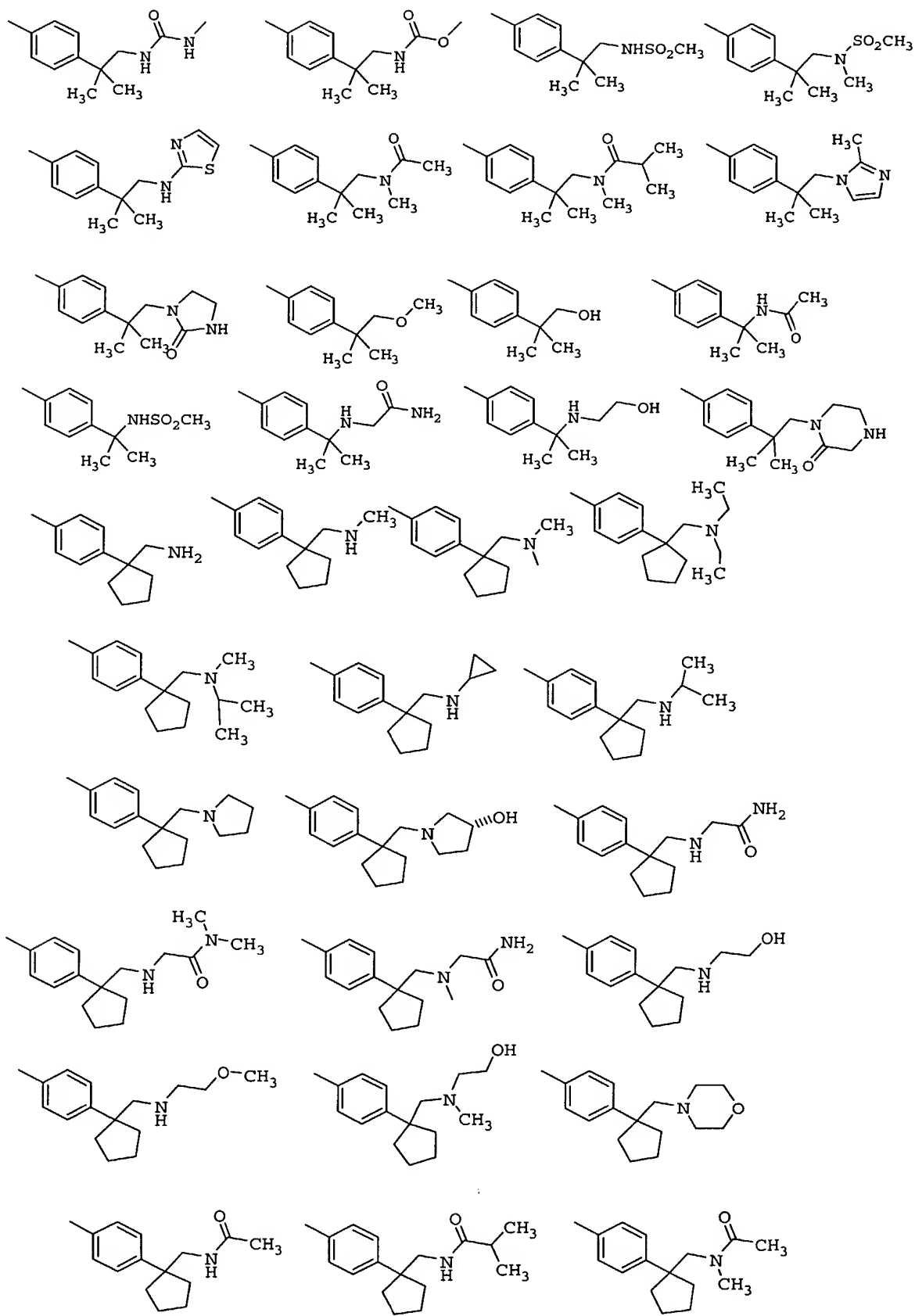
5 A-B is selected from:

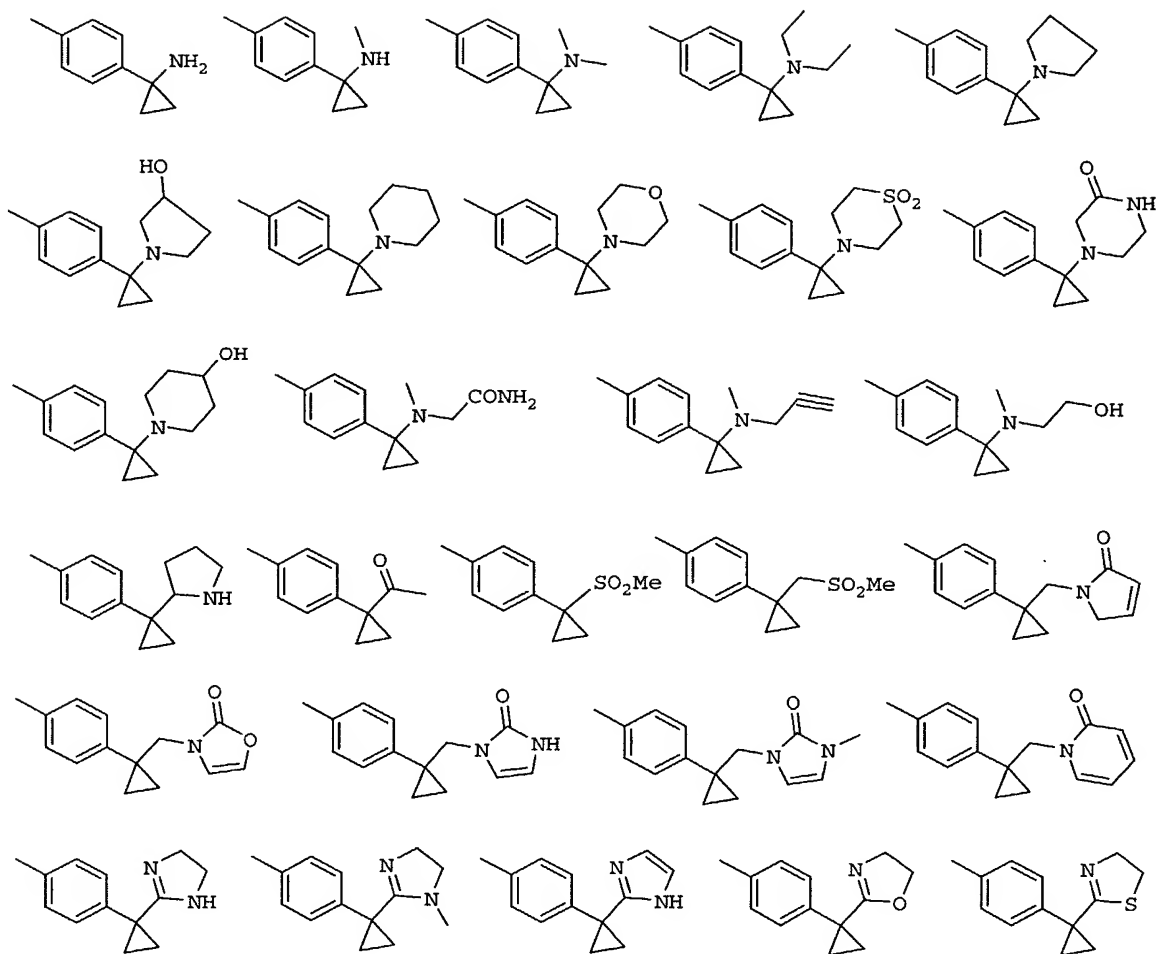


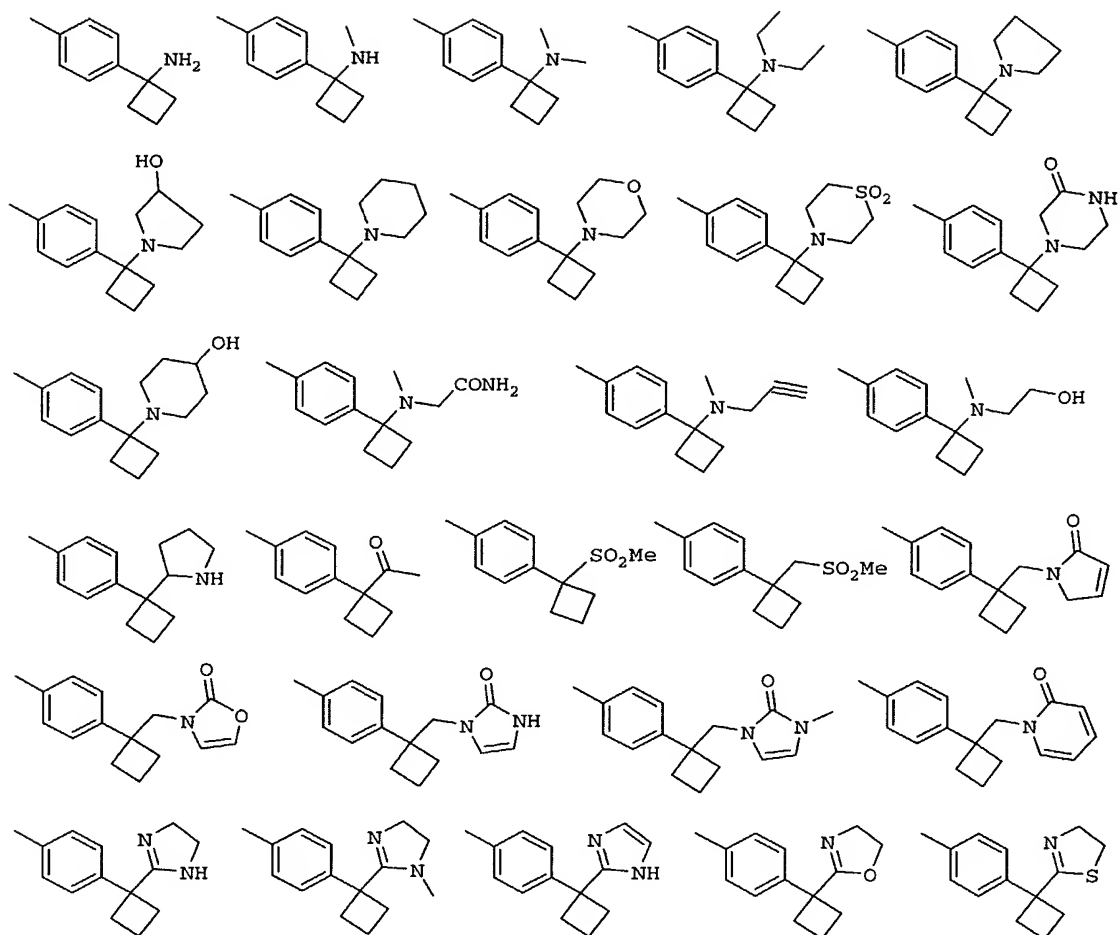


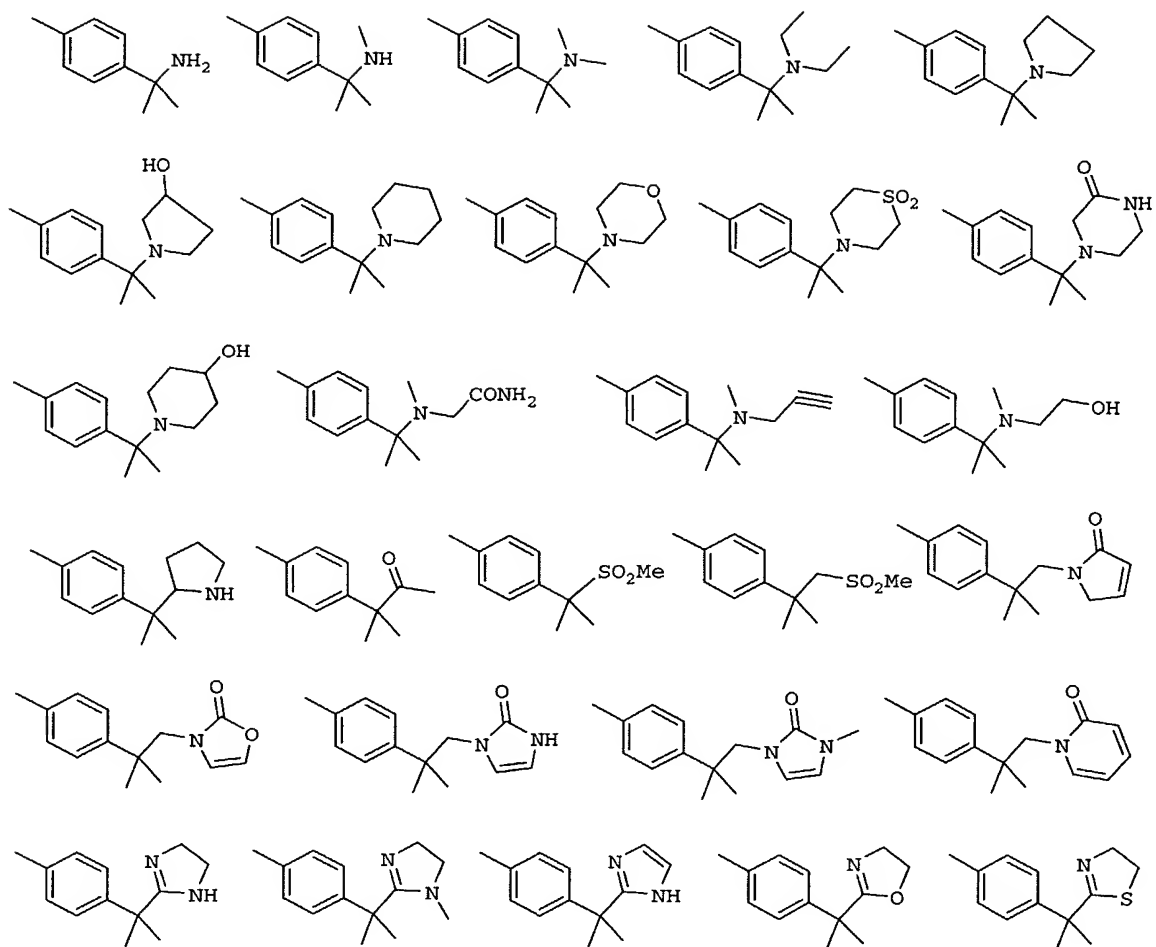


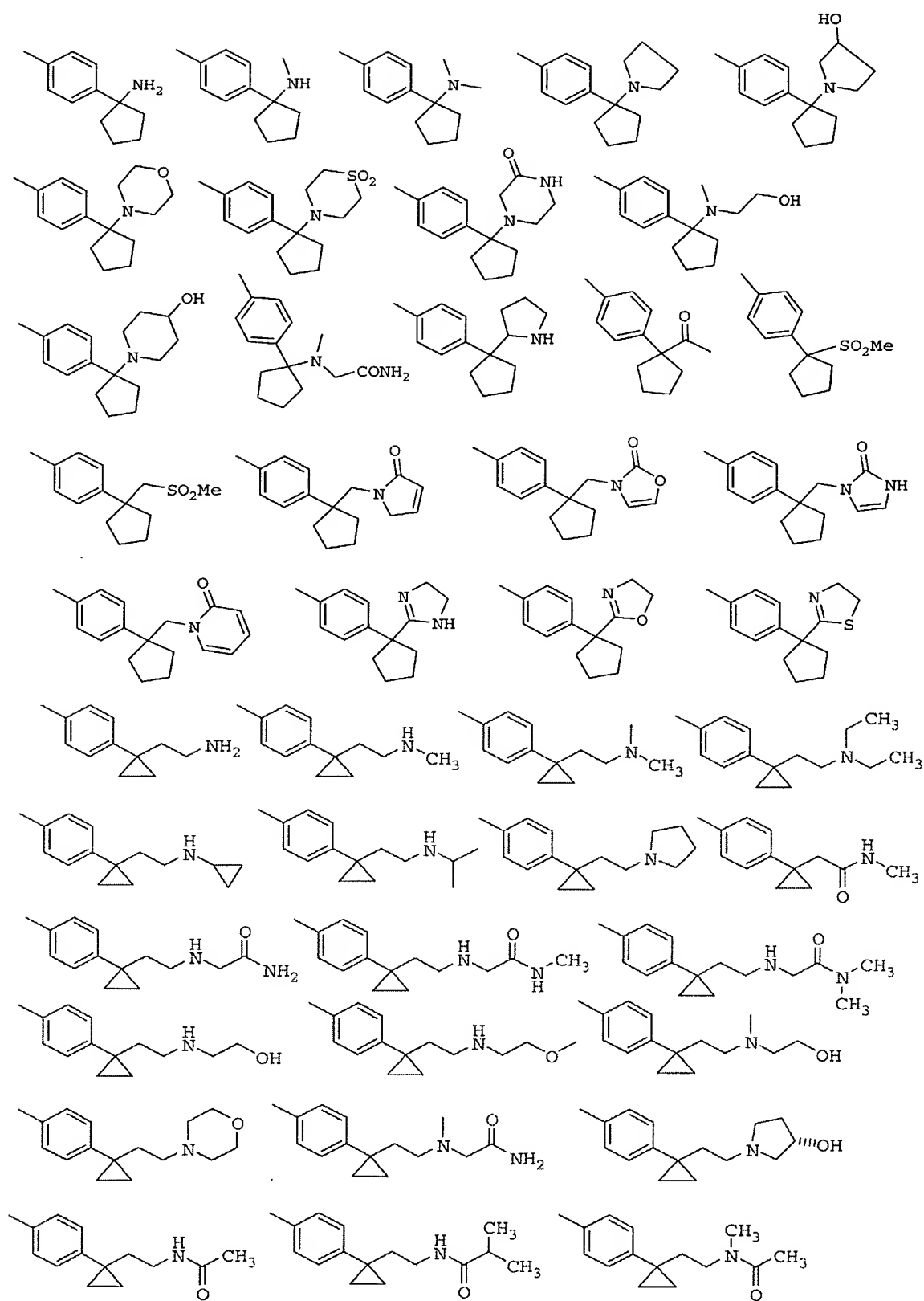


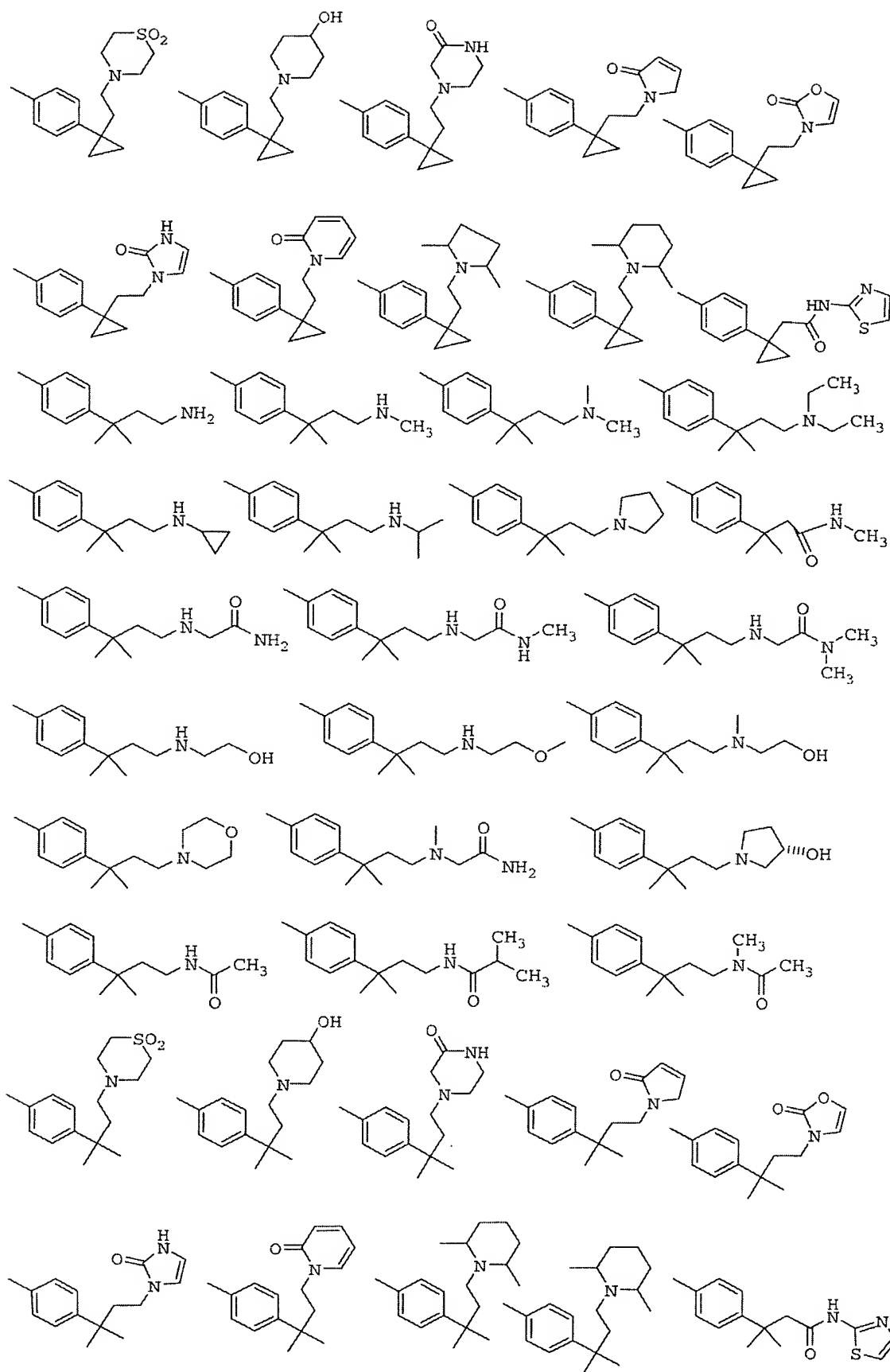


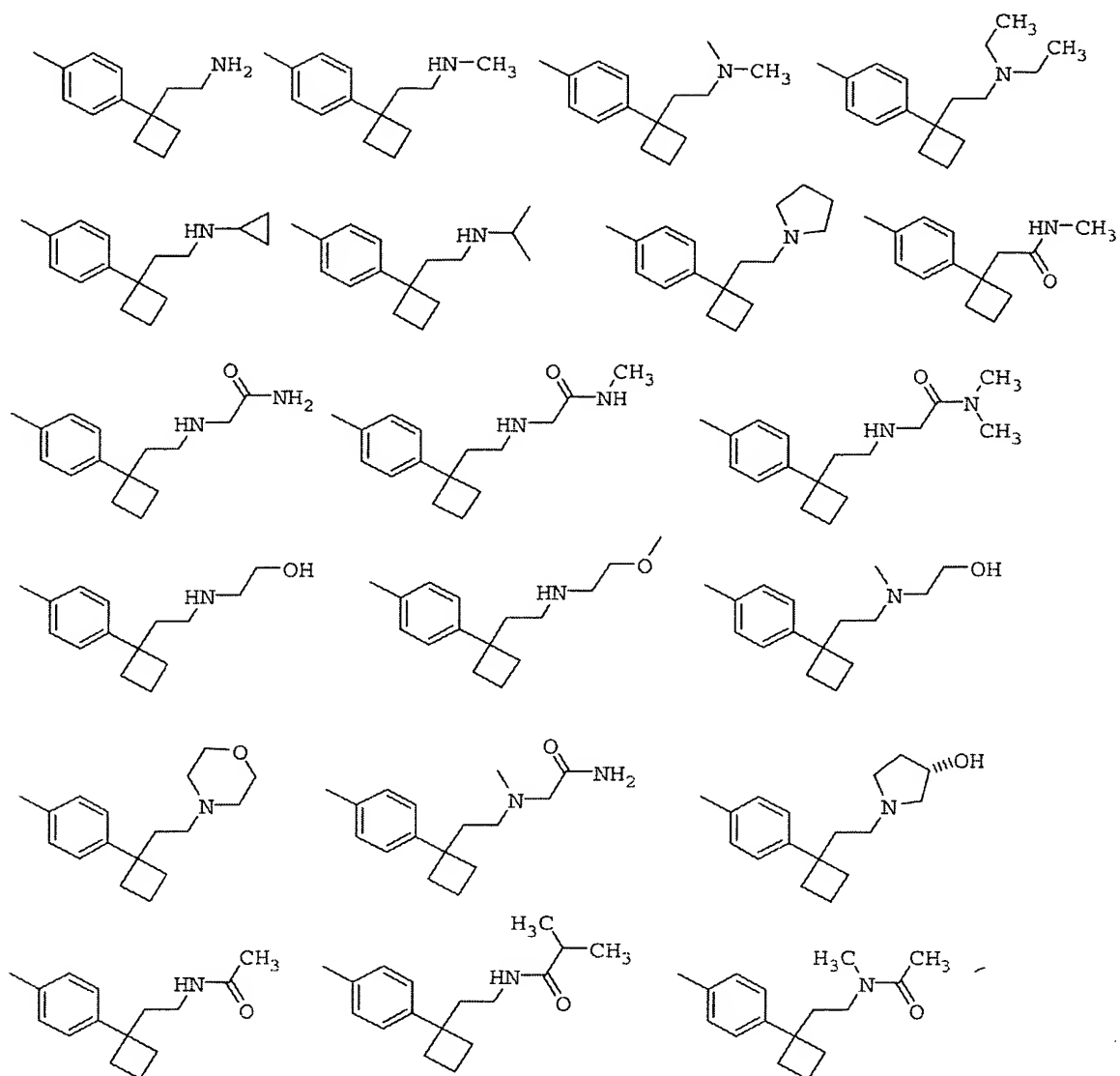




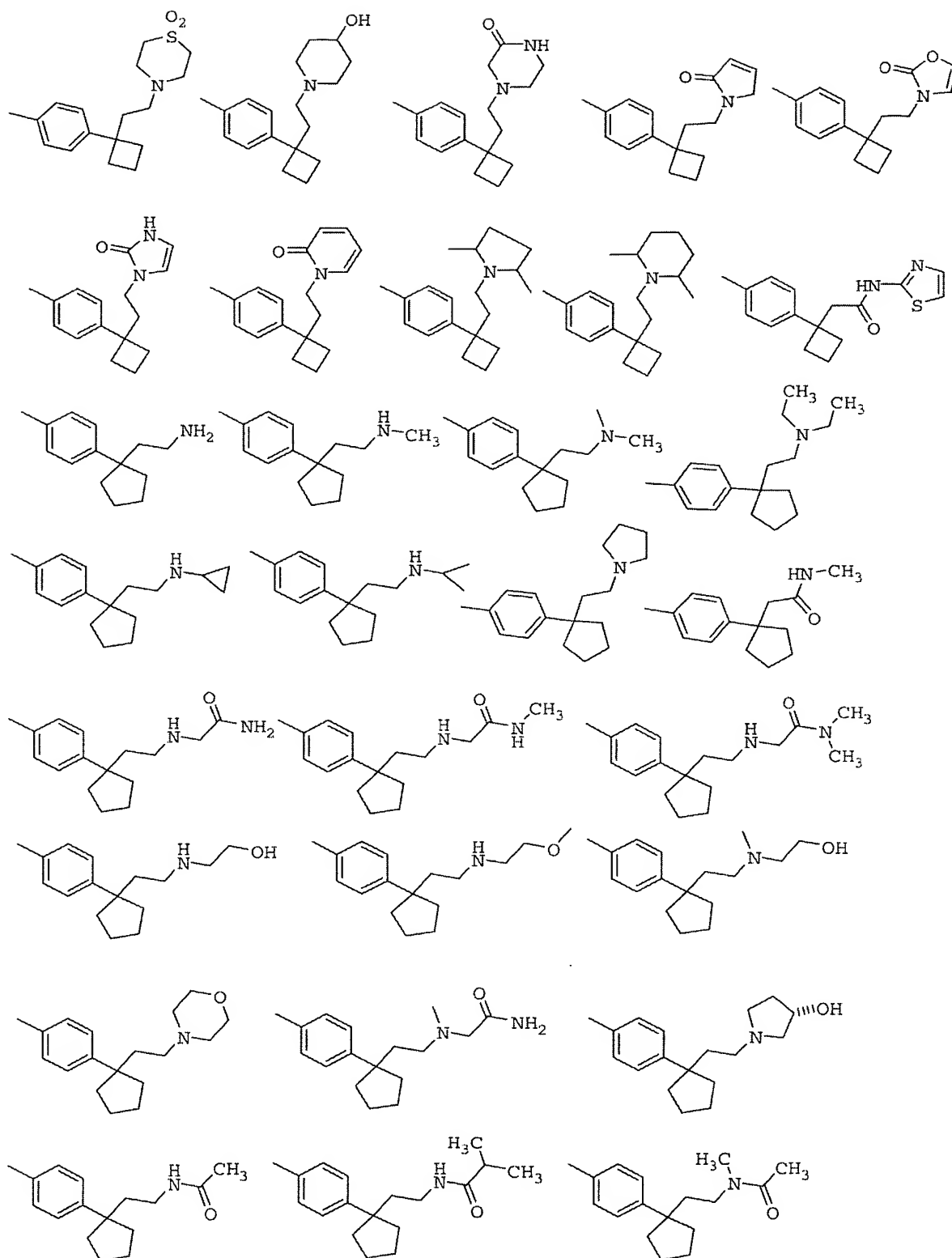


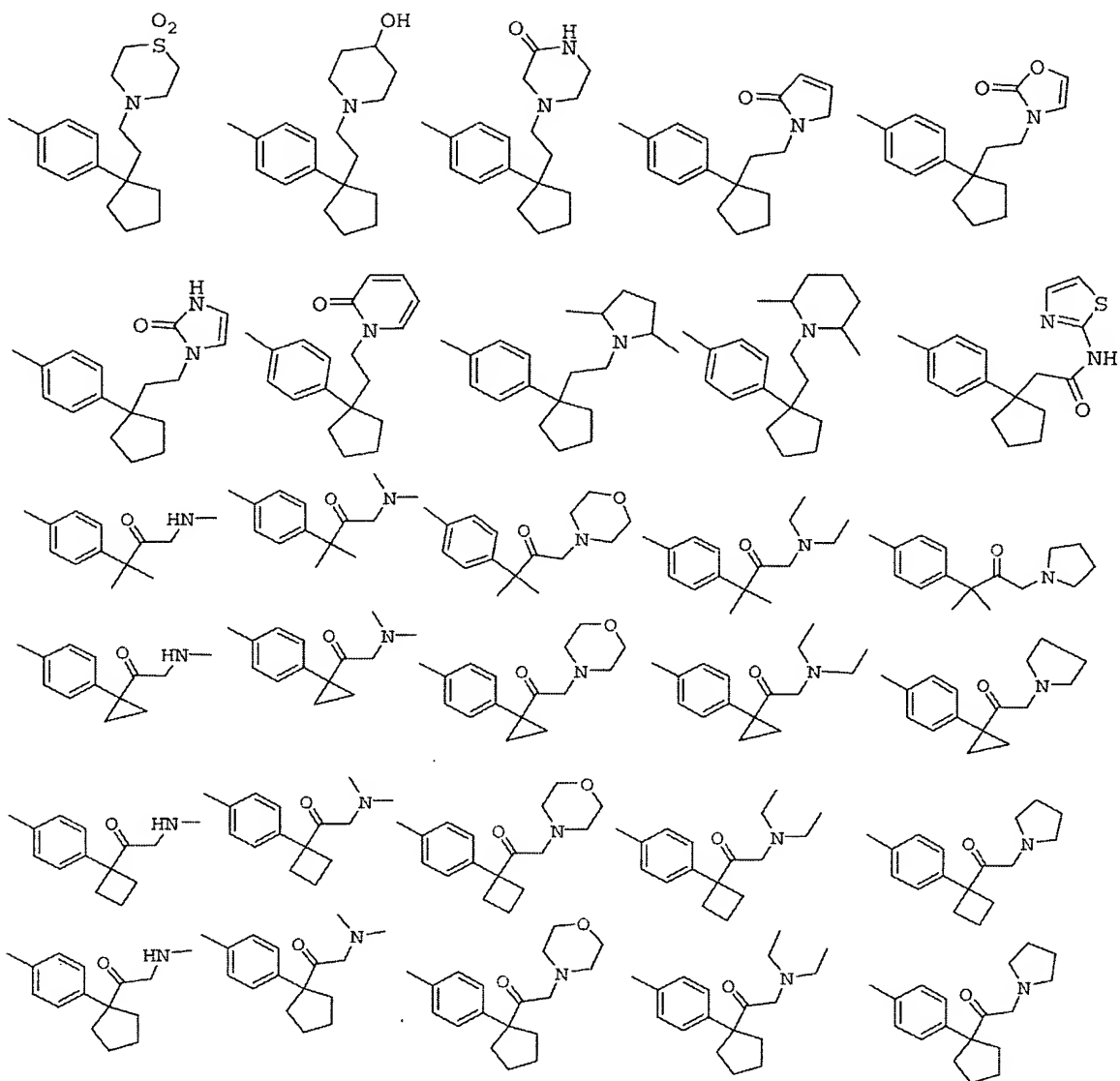












5

15. A compound according to Claim 1, wherein the compound is selected from the group:

1-[(6-chloro-2-naphthyl)sulfonyl]-4-{4-[1-(1-  
10 pyrrolidinylmethyl)cyclopropyl]benzoyl}piperazine;

5-chloro-N-(5-chloro-2-pyridinyl)-2-({4-[1-(1-  
pyrrolidinylmethyl)cyclopropyl]benzoyl}amino)benzamide  
;

15

- N*-{4-[1,1-dimethyl-2-(1-pyrrolidinyl)ethyl]phenyl}-1-(4-methoxyphenyl)-1*H*-1,2,3-triazole-5-carboxamide;
- 5 *N*-{4-[2-(dimethylamino)-1,1-dimethylethyl]phenyl}-1-(4-methoxyphenyl)-1*H*-1,2,3-triazole-5-carboxamide;
- N*<sup>5</sup>-{4-[2-(dimethylamino)-1,1-dimethylethyl]phenyl}-1-(4-methoxyphenyl)-1*H*-pyrazole-3,5-dicarboxamide;
- 10 3-cyano-*N*-{4-[2-(dimethylamino)-1,1-dimethylethyl]phenyl}-1-(4-methoxyphenyl)-1*H*-pyrazole-5-carboxamide;
- N*-{4-[2-(dimethylamino)-1,1-dimethylethyl]phenyl}-1-(4-methoxyphenyl)-3-(trifluoromethyl)-1*H*-pyrazole-5-
- 15 carboxamide;
- N*-{4-[2-(dimethylamino)-1,1-dimethylethyl]phenyl}-1-(4-methoxyphenyl)-1*H*-1,2,3-triazole-5-carboxamide;
- 20 *N*-(4-{1-[(dimethylamino)methyl]cyclopentyl}phenyl)-1-(4-methoxyphenyl)-1*H*-1,2,3-triazole-5-carboxamide;
- N*-(4-{1-[(dimethylamino)methyl]cyclobutyl}phenyl)-1-(4-methoxyphenyl)-1*H*-1,2,3-triazole-5-carboxamide;
- 25 *N*-(4-{1-[(dimethylamino)methyl]cyclopropyl}phenyl)-1-(4-methoxyphenyl)-1*H*-1,2,3-triazole-5-carboxamide;
- 1-(2,3-dihydro-1*H*-indol-6-yl)-*N*<sup>5</sup>-(4-{1-[(2-oxo-1-pyrrolidinyl)methyl]cyclopropyl}phenyl)-1*H*-pyrazole-
- 30 3,5-dicarboxamide;
- 1-(2,3-dihydro-1*H*-indol-6-yl)-*N*<sup>5</sup>-(4-{1-[(dimethylamino)methyl]cyclopropyl}phenyl)-1*H*-
- 35 pyrazole-3,5-dicarboxamide;

5-chloro-*N*-(5-chloro-2-pyridinyl)-2-({4-[2-(dimethylamino)-  
1,1-dimethylethyl]benzoyl}amino)benzamide;

5 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-  
[(methylamino)methyl]cyclopropyl}benzoyl)amino]benzami  
de;

10 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-  
(methoxymethyl)cyclopropyl}benzoyl)amino]benzamide;

15 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-  
[(dimethylamino)methyl]cyclopropyl}benzoyl)amino]benza  
mide;

20 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-[(2-methyl-1-  
pyrrolidinyl)methyl]cyclopropyl}benzoyl)amino]benzamid  
e;

25 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-[(2-oxo-1-  
pyrrolidinyl)methyl]cyclopropyl}benzoyl)amino]benzamid  
e;

30 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-  
[(isopropylamino)methyl]cyclopropyl}benzoyl)amino]benz  
amide;

35 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-  
[(cyclopropylamino)methyl]cyclopropyl}benzoyl)amino]be  
nzamide;

5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-  
[(cyclobutylamino)methyl]cyclopropyl}benzoyl)amino]ben  
zamide;

35

5-chloro-*N*-(5-chloro-2-pyridinyl)-2-{{4-(1-{{(2-hydroxyethyl)amino)methyl}cyclopropyl)benzoyl}amino}benzamide;

5 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-{{4-(1-{{(2-hydroxyethyl)(methyl)amino)methyl}cyclopropyl)benzoyl}amino}benzamide;

10 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-[(3-hydroxy-1-pyrrolidinyl)methyl]cyclopropyl}benzoyl)amino]benzamide;

15 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-[(4-hydroxy-1-piperidinyl)methyl]cyclopropyl}benzoyl)amino]benzamide;

5-chloro-*N*-(5-chloro-2-pyridinyl)-2-({4-[1-(1-piperidinylmethyl)cyclopropyl]benzoyl}amino)benzamide;

20 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-[(2-oxo-1-piperidinyl)methyl]cyclopropyl}benzoyl)amino]benzamide;

25 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-[(2-oxo-1-imidazolidinyl)methyl]cyclopropyl}benzoyl)amino]benzamide;

30 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-[(2-oxo-1-pyrrolidinyl)methyl]cyclopropyl}benzyl)amino]benzamide;

2-{{4-(1-{{acetyl(methyl)amino)methyl}cyclopropyl)benzyl}amino}-5-chloro-*N*-(5-chloro-2-pyridinyl)benzamide;

- 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-({4-[1-  
( {methyl (methylamino) carbonyl} amino) methyl} cyclopropyl  
1] benzyl} amino) benzamide;
- 5 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-{[4-(1-  
{ [methyl (methylsulfonyl) amino] methyl} cyclopropyl) benzy  
1] amino} benzamide;
- 10 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-  
[ (methylsulfonyl) amino] cyclopropyl} benzyl) amino] benzam  
ide;
- 2-({4-[1-(acetylamino) cyclopropyl] benzyl} amino)-5-chloro-*N*-  
(5-chloro-2-pyridinyl) benzamide;
- 15 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-{[4-(1-{[(2-  
hydroxyethyl) amino] methyl} cyclopropyl) benzyl] amino} ben  
zamide;
- 20 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-{[4-(1-{[(2-  
hydroxyethyl) (methyl) amino] methyl} cyclopropyl) benzyl] a  
mino} benzamide;
- 25 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-[(1,3-thiazol-2-  
ylamino) methyl] cyclopropyl} benzoyl) amino] benzamide;
- 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-[(4-{1-[(2-methyl-1*H*-  
imidazol-1-  
yl) methyl] cyclopropyl} benzoyl) amino] benzamide;
- 30 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-({4-[1-  
( { [ (methylamino) carbonyl] amino} methyl} cyclopropyl] benz  
oyl} amino) benzamide;

methyl [1-(4-{{(4-chloro-2-{{(5-chloro-2-pyridinyl) amino} carbonyl} phenyl) amino} carbonyl} phenyl) cyclopropyl] methylcarbamate;

5 5-chloro-*N*-(5-chloro-2-pyridinyl)-2-{{4-(1-{{(methylsulfonyl) amino} methyl} cyclopropyl) benzoyl} amino} benzamide;

2-{{4-[1-(2-amino-2-oxoethyl) cyclopropyl] benzoyl} amino)-5-chloro-*N*-(5-chloro-2-pyridinyl) benzamide;

10

5-chloro-*N*-(5-chloro-2-pyridinyl)-2-{{4-{{1-[2-(dimethylamino)-2-oxoethyl] cyclopropyl} benzyl} amino} benzamide;

15

2-{{4-[1-(2-amino-2-oxoethyl) cyclopropyl] benzyl} amino)-5-chloro-*N*-(5-chloro-2-pyridinyl) benzamide;

*N*-{4-[1-(2-amino-2-oxoethyl) cyclopropyl] phenyl}-1-(4-methoxyphenyl)-1*H*-1,2,3-triazole-5-carboxamide;

20

*N*-{4-[1-(aminomethyl) cyclopropyl] phenyl}-1-(4-methoxyphenyl)-1*H*-1,2,3-triazole-5-carboxamide;

25 1-(4-methoxyphenyl)-*N*-(4-{{1-{{(methylamino) methyl} cyclopropyl} phenyl)-1*H*-1,2,3-triazole-5-carboxamide;

1-(4-methoxyphenyl)-*N*-{4-[1-(1-pyrrolidinylmethyl) cyclopropyl] phenyl}-1*H*-1,2,3-triazole-5-carboxamide;

30

1-(4-methoxyphenyl)-*N*<sup>5</sup>-{4-[1-(1-pyrrolidinylmethyl) cyclopropyl] phenyl}-1*H*-pyrazole-3,5-dicarboxamide;

35

- 1- (4-methoxyphenyl) -N<sup>5</sup>- (4- {1- [ (2-oxo-1-  
pyrrolidinyl)methyl]cyclopropyl}phenyl) -1H-pyrazole-  
3,5-dicarboxamide;
- 5 1- (4-methoxyphenyl) -N<sup>5</sup>- (4- {1-  
[ (methylamino)methyl]cyclopropyl}phenyl) -1H-pyrazole-  
3,5-dicarboxamide;
- 10 3-cyano-1- (4-methoxyphenyl) -N- (4- {1-  
[ (methylamino)methyl]cyclopropyl}phenyl) -1H-pyrazole-  
5-carboxamide;
- 15 3-cyano-1- (4-methoxyphenyl) -N- {4- [1- (1-  
pyrrolidinylmethyl)cyclopropyl]phenyl} -1H-pyrazole-5-  
carboxamide;
- 20 3-cyano-1- (4-methoxyphenyl) -N- (4- {1- [ (2-oxo-1-  
pyrrolidinyl)methyl]cyclopropyl}phenyl) -1H-pyrazole-5-  
carboxamide;
- 1- (4-methoxyphenyl) -3- (methylsulfonyl) -N- (4- {1- [ (2-oxo-1-  
pyrrolidinyl)methyl]cyclopropyl}phenyl) -1H-pyrazole-5-  
carboxamide;
- 25 N- (4- {1- [ (3-hydroxy-1-  
pyrrolidinyl)methyl]cyclopropyl}phenyl) -1- (4-  
methoxyphenyl) -3- (methylsulfonyl) -1H-pyrazole-5-  
carboxamide;
- 30 5-chloro-thiophene-2-carboxylic acid {1- [4- (1-pyrrolidin-1-  
ylmethyl-cyclopropyl) -benzoyl] -pyrrolidin-3-yl} -amide  
;
- 35 5-chloro-thiophene-2-carboxylic acid {1- [4- (1-  
dimethylaminomethyl-cyclopropyl) -benzoyl] -pyrrolidin-  
3-yl} -amide;



- 3-chloro-1H-indole-6-carboxylic acid {1-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoyl]-pyrrolidin-3-yl}-amide;
- 5 3-chloro-1H-indole-6-carboxylic acid {1-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoyl]-pyrrolidin-3-yl}-amide;
- 10 3-chloro-1H-indole-6-carboxylic acid {2-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-cyclohexyl}-amide;
- 5-chloro-thiophene-2-carboxylic acid {2-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-cyclohexyl}-amide;
- 15 2{4-[4-chloro-2-(5-chloro-pyridin-2-ylcarbamoyl)-phenylcarbamoyl]-phenyl}-2-methyl-propionic acid methyl ester;
- 20 2{4-[4-chloro-2-(5-chloro-pyridin-2-ylcarbamoyl)-phenylcarbamoyl]-phenyl}-2-methyl-propyl alcohol;
- 5-chloro-N-(5-chloropyridin-2-yl)-2-({4-[2-(ethylamino)-1,1-dimethylethyl]benzoyl}amino)benzamide;
- 25 5-chloro-N-(5-chloropyridin-2-yl)-2-{{4-(1,1-dimethyl-2-pyrrolidin-1-ylethyl)benzoyl}amino}benzamide;
- 5-chloro-N-(5-chloropyridin-2-yl)-2-{{4-(1,1-dimethyl-2-morpholin-4-ylethyl)benzoyl}amino}benzamide;
- 30 2-{4-[2-(5-chloro-pyridin-2-ylcarbamoyl)-phenylcarbamoyl]-phenyl}-2-methyl-propionic acid methyl ester;
- 35 2-{4-[2-(5-chloro-pyridin-2-ylcarbamoyl)-4-methoxy-phenylcarbamoyl]-phenyl}-2-methyl-propionic acid methyl ester;

*N*-(5-chloropyridin-2-yl)-2-([4-(2-hydroxy-1,1-dimethylethyl)benzoyl]amino)benzamide;

5 *N*-(5-chloropyridin-2-yl)-2-([4-(2-hydroxy-1,1-dimethylethyl)benzoyl]amino)-5-methoxybenzamide;

*N*-(5-chloropyridin-2-yl)-2-([4-(1,1-dimethyl-2-pyrrolidin-1-ylethyl)benzoyl]amino)benzamide;

10

*N*-(5-chloropyridin-2-yl)-2-([4-(1,1-dimethyl-2-morpholin-4-ylethyl)benzoyl]amino)benzamide;

15 *N*-(5-chloropyridin-2-yl)-2-([4-(1,1-dimethyl-2-pyrrolidin-1-ylethyl)benzoyl]amino)-5-methoxybenzamide;

2-[(4-{2-[acetyl(methyl)amino]-1,1-dimethylethyl)benzoyl]amino)-*N*-(5-chloropyridin-2-yl)benzamide;

20

2-(4-{[2-(5-chloro-pyridin-2-yl)carbamoyl]-phenylamino)methyl}-phenyl)-2-methyl-propionic acid methyl ester;

25 5-chloro-*N*-(5-chloropyridin-2-yl)-2-([4-(2-hydroxy-1,1-dimethylethyl)benzyl]amino)benzamide;

5-chloro-*N*-(5-chloro-pyridin-2-yl)-2-[4-(2-dimethylamino-1,1-dimethyl-ethyl)-benzylamino]-benzamide;

30

*N*-(5-chloropyridin-2-yl)-2-({4-[1-(hydroxymethyl)cyclopropyl]benzoyl}amino)-5-methoxybenzamide;

35 *N*-(5-chloropyridin-2-yl)-5-methoxy-2-({4-[1-(pyrrolidin-1-yl)methyl]cyclopropyl]benzoyl}amino)benzamide;

*N*-(5-chloropyridin-2-yl)-2-({4-[1-(pyrrolidin-1-ylmethyl)cyclopropyl]benzoyl}amino)benzamide;

5 1-{4-[2-(5-chloro-pyridin-2-ylcarbamoyl)-phenylcarbamoyl]-phenyl}-cyclopropanecarboxylic acid methyl ester;

*N*-(5-chloropyridin-2-yl)-2-({4-[1-(hydroxymethyl)cyclopropyl]benzoyl}amino)benzamide;

10

6-chloro-3-(5-chloropyridin-2-yl)-2-[4-(1,1-dimethyl-2-morpholin-4-ylethyl)phenyl]quinazolin-4(3*H*)-one;

15 3-(5-chloropyridin-2-yl)-2-{4-[1-(pyrrolidin-1-ylmethyl)cyclopropyl]phenyl}quinazolin-4(3*H*)-one;

2-(4-methoxy-phenyl)-5-trifluoromethyl-2*H*-pyrazole-3-carboxylic acid {4-[1-(2-methylamino-ethyl)-cyclopropyl]-phenyl}-amide;

20

2-(4-methoxy-phenyl)-5-trifluoromethyl-2*H*-pyrazole-3-carboxylic acid {4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-amide;

25 2-(4-methoxy-phenyl)-5-trifluoromethyl-2*H*-pyrazole-3-carboxylic acid {4-[1-(2-pyrrolidin-1-yl-ethyl)-cyclopropyl]-phenyl}-amide;

30 2-(4-methoxy-phenyl)-5-trifluoromethyl-2*H*-pyrazole-3-carboxylic acid [4-(1-{2-[(2-hydroxy-ethyl)-methylamino]-ethyl}-cyclopropyl)-phenyl]-amide;

35 2-(4-methoxy-phenyl)-5-trifluoromethyl-2*H*-pyrazole-3-carboxylic acid (4-{1-[2-(carbamoylmethyl-methylamino)-ethyl]-cyclopropyl}-phenyl)-amide;

- 2-(4-methoxy-phenyl)-5-trifluoromethyl-2H-pyrazole-3-carboxylic acid {4-[1-(2-morpholin-4-yl-ethyl)-cyclopropyl]-phenyl}-amide;
- 5 2-(4-methoxy-phenyl)-5-trifluoromethyl-2H-pyrazole-3-carboxylic acid [4-(1-carbamoylmethyl-cyclopropyl)-phenyl]-amide;
- 10 2-(4-methoxy-phenyl)-5-trifluoromethyl-2H-pyrazole-3-carboxylic acid [4-(1-methylcarbamoylmethyl-cyclopropyl)-phenyl]-amide;
- 15 2-(4-methoxy-phenyl)-5-trifluoromethyl-2H-pyrazole-3-carboxylic acid [4-(1-methylcarbamoylmethyl-cyclobutyl)-phenyl]-amide;
- 20 2-(4-methoxy-phenyl)-5-trifluoromethyl-2H-pyrazole-3-carboxylic acid [4-(1-carbamoylmethyl-cyclobutyl)-phenyl]-amide;
- 25 2-(4-methoxy-phenyl)-5-trifluoromethyl-2H-pyrazole-3-carboxylic acid {4-[1-(2-methylamino-ethyl)-cyclobutyl]-phenyl}-amide;
- 30 2-(4-methoxy-phenyl)-5-trifluoromethyl-2H-pyrazole-3-carboxylic acid {4-[1-(2-dimethylamino-ethyl)-cyclobutyl]-phenyl}-amide;
- 35 2-(4-methoxy-phenyl)-5-trifluoromethyl-2H-pyrazole-3-carboxylic acid {4-[1-(2-pyrrolidin-1-yl-ethyl)-cyclobutyl]-phenyl}-amide;

- 2-(4-methoxy-phenyl)-5-trifluoromethyl-2H-pyrazole-3-carboxylic acid {4-[1-(2-dimethylamino-ethyl)-cyclopentyl]-phenyl}-amide;
- 5 5-cyano-2-(4-methoxy-phenyl)-2H-pyrazole-3-carboxylic acid {4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-amide;
- 2-(4-methoxy-phenyl)-5-methyl-2H-pyrazole-3-carboxylic acid  
10 {4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-amide;
- 1-(4-methoxy-phenyl)-1H-pyrazole-3,5-dicarboxylic acid 3-amide 5-({4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-amide);  
15
- 5-methanesulfonyl-2-(4-methoxy-phenyl)-2H-pyrazole-3-carboxylic acid {4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-amide;  
20
- 3-(4-methoxy-phenyl)-3H-[1,2,3]triazole-4-carboxylic acid {4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-phenyl}-amide;
- 25 3-(4-methoxy-phenyl)-3H-[1,2,3]triazole-4-carboxylic acid [4-(1-carbamoylmethyl-cyclopropyl)-phenyl]-amide;
- 3-(4-methoxy-phenyl)-3H-[1,2,3]triazole-4-carboxylic acid [4-(1-methylcarbamoylmethyl-cyclopropyl)-phenyl]-  
30 amide;
- 2-[1-(4-{2-[3-(4-methoxy-phenyl)-3H-[1,2,3]triazol-4-yl]-2-oxo-ethyl}-phenyl)-cyclopropyl]-N-methyl-acetamide;
- 35 2-[1-(4-{2-[3-(4-methoxy-phenyl)-3H-[1,2,3]triazol-4-yl]-2-oxo-ethyl}-phenyl)-cyclopropyl]-acetamide;

2-[1-(4-{2-[2-(4-methoxy-phenyl)-5-trifluoromethyl-2H-pyrazol-3-yl]-2-oxo-ethyl}-phenyl)-cyclopropyl]-acetamide;

5

2-[1-(4-{2-[5-cyano-2-(4-methoxy-phenyl)-2H-pyrazol-3-yl]-2-oxo-ethyl}-phenyl)-cyclopropyl]-acetamide;

10

2-[1-(4-{2-[5-methanesulfonyl-2-(4-methoxy-phenyl)-2H-pyrazol-3-yl]-2-oxo-ethyl}-phenyl)-cyclopropyl]-acetamide;

15

2-[1-(4-{2-[5-methanesulfonyl-2-(4-methoxy-phenyl)-2H-pyrazol-3-yl]-2-oxo-ethyl}-phenyl)-cyclopropyl]-N-methyl-acetamide;

20

5-chloro-N-(5-chloro-2-pyridinyl)-2-({4-[1-(2-dimethylamino-ethyl)cyclopropyl]benzoyl}amino)benzamide;

N-(5-chloro-2-pyridinyl)-5-methoxy-2-({4-[1-(2-dimethylamino-ethyl)cyclopropyl]benzoyl}amino)benzamide;

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N-(5-chloro-2-pyridinyl)-5-fluoro-2-({4-[1-(2-dimethylamino-ethyl)cyclopropyl]benzoyl}amino)benzamide;

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N-(5-chloro-2-pyridinyl)-5-methyl-2-({4-[1-(2-dimethylamino-ethyl)cyclopropyl]benzoyl}amino)benzamide;

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N-(5-chloro-2-pyridinyl)-5-methylsulfonyl-2-({4-[1-(2-dimethylamino-ethyl)cyclopropyl]benzoyl}amino)benzamide;

N-(5-chloro-2-pyridinyl)-5-cyano-2-({4-[1-(2-dimethylamino-ethyl)cyclopropyl]benzoyl}amino)benzamide;

5 N-(5-chloro-2-pyridinyl)-2-({4-[1-(2-dimethylamino-ethyl)cyclopropyl]benzoyl}amino)benzamide;

3-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-pyridine-2-carboxylic acid (5-chloro-pyridin-2-yl)-amide;

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N-(5-chloro-pyridin-2-yl)-4-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-nicotinamide;

15 N-(5-chloro-pyridin-2-yl)-3-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-isonicotinamide;

N-(5-chloro-pyridin-2-yl)-2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-nicotinamide;

20 5-chloro-N-(5-chloro-2-pyridinyl)-2-(4-{1-[2-(2-oxo-pyrrolidin-1-yl)-ethyl]-cyclopropyl}-benzoylamino)benzamide;

25 N-(5-chloro-2-pyridinyl)-5-methoxy-2-(4-{1-[2-(2-oxo-pyrrolidin-1-yl)-ethyl]-cyclopropyl}-benzoylamino)benzamide;

30 N-(5-chloro-2-pyridinyl)-5-fluoro-2-(4-{1-[2-(2-oxo-pyrrolidin-1-yl)-ethyl]-cyclopropyl}-benzoylamino)benzamide;

N-(5-chloro-2-pyridinyl)-5-methyl-2-(4-{1-[2-(2-oxo-pyrrolidin-1-yl)-ethyl]-cyclopropyl}-benzoylamino)benzamide;

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N-(5-chloro-2-pyridinyl)-5-methylsulfonyl-2-(4-{1-[2-(2-oxo-pyrrolidin-1-yl)-ethyl]-cyclopropyl}benzoylamino)benzamide;

- 5 N-(5-chloro-2-pyridinyl)-5-cyano-2-(4-{1-[2-(2-oxo-pyrrolidin-1-yl)-ethyl]-cyclopropyl}-benzoylamino)benzamide;

- 10 N-(5-chloro-2-pyridinyl)-2-(4-{1-[2-(2-oxo-pyrrolidin-1-yl)-ethyl]-cyclopropyl}-benzoylamino)benzamide;

- 3-(4-{1-[2-(2-oxo-pyrrolidin-1-yl)-ethyl]-cyclopropyl}-benzoylamino)-pyridine-2-carboxylic acid (5-chloro-pyridin-2-yl)-amide;

- 15 N-(5-chloro-pyridin-2-yl)-4-(4-{1-[2-(2-oxo-pyrrolidin-1-yl)-ethyl]-cyclopropyl}-benzoylamino)-nicotinamide;

- 20 N-(5-chloro-pyridin-2-yl)-3-(4-{1-[2-(2-oxo-pyrrolidin-1-yl)-ethyl]-cyclopropyl}-benzoylamino)-isonicotinamide;

N-(5-chloro-pyridin-2-yl)-2-(4-{1-[2-(2-oxo-pyrrolidin-1-yl)-ethyl]-cyclopropyl}-benzoylamino)-nicotinamide;

- 25 3-chloro-1H-indole-6-carboxylic acid {4-dimethylcarbamoyl-2-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-cyclohexyl}-amide;

- 30 3-chloro-1H-indole-6-carboxylic acid {5-dimethylcarbamoyl-2-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-cyclohexyl}-amide;

- 35 3-chloro-1H-indole-6-carboxylic acid {4-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-tetrahydro-pyran-3-yl}-amide;



- 3-chloro-1H-indole-6-carboxylic acid {3-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-tetrahydro-pyran-4-yl}-amide;
- 5 3-chloro-1H-indole-6-carboxylic acid {1,1-dioxo-3-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-hexahydro-1 $\lambda$ <sup>6</sup>-thiopyran-4-yl}-amide;
- 10 3-chloro-1H-indole-6-carboxylic acid {1,1-dioxo-4-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-hexahydro-1 $\lambda$ <sup>6</sup>-thiopyran-3-yl}-amide;
- 15 3-chloro-1H-indole-6-carboxylic acid {1-acetyl-3-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-piperidin-4-yl}-amide;
- 20 3-chloro-1H-indole-6-carboxylic acid {1-acetyl-3-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-piperidin-4-yl}-amide;
- 4-[(3-chloro-1H-indole-6-carbonyl)-amino]-3-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-piperidine-1-carboxylic acid methyl ester;
- 25 3-chloro-1H-indole-6-carboxylic acid {1-(2-methoxy-acetyl)-3-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-piperidin-4-yl}-amide;
- 30 5-chloro-thiophene-2-carboxylic acid {2-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoylamino]-cyclopentyl}-amide;
- 35 5-chloro-thiophene-2-carboxylic acid {4-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoylamino]-tetrahydro-furan-3-yl}-amide;

- 5-chloro-thiophene-2-carboxylic acid {1-acetyl-4-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoylamino]-pyrrolidin-3-yl}-amide;
- 5 5-chloro-thiophene-2-carboxylic acid {1-cyclopropanecarbonyl-4-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoylamino]-pyrrolidin-3-yl}-amide;
- 10 3-[(5-chloro-thiophene-2-carbonyl)-amino]-4-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoylamino]-pyrrolidine-1-carboxylic acid methyl ester;
- 15 5-chloro-thiophene-2-carboxylic acid [4-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoylamino]-1-(2-methoxy-acetyl)-pyrrolidin-3-yl]-amide;
- 20 5-chloro-thiophene-2-carboxylic acid {2-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoylamino]-4-dimethylcarbamoyl-cyclopentyl}-amide;
- 25 5-chloro-thiophene-2-carboxylic acid {1-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoylamino]-indan-2-yl}-amide;
- 30 3-chloro-1H-indole-6-carboxylic acid {3-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoylamino]-1,2,3,4-tetrahydro-naphthalen-2-yl}-amide;
- 35 3-chloro-1H-indole-6-carboxylic acid {3-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoylamino]-7-oxa-bicyclo[2.2.1]hept-2-yl}-amide;
- 5-chloro-thiophene-2-carboxylic acid {2-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoylamino]-4-dimethylcarbamoyl-cyclopentyl}-amide;

- 5-chloro-thiophene-2-carboxylic acid {8-[4-(1-dimethylaminomethyl-cyclopropyl)-benzoylamino]-1-oxa-spiro[4.4]non-7-yl}-amide;
- 5 5-chloro-thiophene-2-carboxylic acid (8-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-1-oxa-spiro[4.4]non-7-yl)-amide;
- 10 5-chloro-thiophene-2-carboxylic acid (2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-cyclopentyl)-amide;
- 15 5-chloro-thiophene-2-carboxylic acid (2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-4-dimethylcarbamoyl-cyclopentyl)-amide;
- 20 3-[(5-chloro-thiophene-2-carbonyl)-amino]-4-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-pyrrolidine-1-carboxylic acid methyl ester;
- 25 5-chloro-thiophene-2-carboxylic acid (4-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-tetrahydro-furan-3-yl)-amide;
- 30 3-chloro-1H-indole-6-carboxylic acid (2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-cyclohexyl)-amide;
- 35 3-chloro-1H-indole-6-carboxylic acid (2-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-4-dimethylcarbamoyl-cyclohexyl)-amide;
- 4-[(3-Chloro-1H-indole-6-carbonyl)-amino]-3-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-piperidine-1-carboxylic acid methyl ester;

3-chloro-1H-indole-6-carboxylic acid (3-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-1,1-dioxo-hexahydro-1 $\lambda$ <sup>6</sup>-thiopyran-4-yl)-amide;

5 3-chloro-1H-indole-6-carboxylic acid (4-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-1,1-dioxo-hexahydro-1 $\lambda$ <sup>6</sup>-thiopyran-3-yl)-amide;

10 3-chloro-1H-indole-6-carboxylic acid (4-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-tetrahydro-pyran-3-yl)-amide;

15 3-chloro-1H-indole-6-carboxylic acid (3-{4-[1-(2-dimethylamino-ethyl)-cyclopropyl]-benzoylamino}-tetrahydro-pyran-4-yl)-amide;

(1*R*, 2*S*)-5-chloro-thiophene-2-carboxylic acid {2-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-cyclopentyl}-amide;

20 (1*R*, 2*S*)-3-chloro-1H-indole-6-carboxylic acid {2-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-cyclopentyl}-amide;

25 (1*R*, 2*S*)-5-chloro-thiophene-2-carboxylic acid {2-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-benzoylamino]-cyclohexyl}-amide; and,

30 *Cis*-3-chloro-1H-indole-6-carboxylic acid {2-[4-(1-pyrrolidin-1-ylmethyl-cyclopropyl)-phenylcarbamoyl]-cyclohexyl}-amide;

or a pharmaceutically acceptable salt form thereof.

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16. A pharmaceutical composition, comprising: a  
pharmaceutically acceptable carrier and a therapeutically  
effective amount of a compound of Claim 1, 2, 3, 4, 5, 6,  
7, 8, 9, 10, 11, 12, 13, 14, or 15 or a pharmaceutically  
5 acceptable salt thereof.

17. A compound of Claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10,  
11, 12, 13, 14, or 15 for use in therapy.  
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18. Use of a compound of Claim 1, 2, 3, 4, 5, 6, 7, 8,  
9, 10, 11, 12, 13, 14, or 15 for the manufacture of a  
medicament for the treatment of a thromboembolic disorder.  
15

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/13893

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : A61K 31/41, 3144, 31/435; C07D 213/14, 213/75, 471/04

US CL : 514/300, 303, 352, 406, 407; 546/117, 119, 309; 548/364.7, 369.4, 369.7

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 514/300, 303, 352, 406, 407; 546/117, 119, 309; 548/364.7, 369.4, 369.7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
CAS ONLINE- Structure searches**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	US 6,456,656 B2 (ZHOU et al) 15 October 2002.	1-18



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;"

document member of the same patent family

Date of the actual completion of the international search

14 July 2003 (14.07.2003)

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Date of mailing of the international search report

Authorized officer

Bernard Dentz

Telephone No. 703 308-1235

**BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING**

I. Claims 1-8 and 16-18 drawn to pyrazolo and triazolopyridines.

II. Claims 1 and 9-18 drawn to pyrazoles.

III. Claims 1 and 9-18 drawn to compounds where the M ring is benzene. See claim 14, fourth and fifth structures.

IV. Claims 1 and 9-18 drawn to cpds. where M is cyclohexane or cyclopentane. See claim 14, sixth and seventh structures

V. Claims 1 and 9-18 drawn to cpds. where M is piperidine. See claim 14, eighth and ninth structures.

In covering a multitude of different ring structures there is not a single common core. See PCT rule 13.1-13.4.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/13893

## Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claim Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claim Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claim Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:  
Please See Continuation Sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐  
☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.